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PTO/SB/21 (08-00)

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/528,111
Filing Date	March 17, 2000
First Named Inventor	Eliezer Pasternak,, et al.
Group Art Unit	2631
Examiner Name	J. Corrielus
Attorney Docket Number	2100259-991110

Total Number of Pages in This Submission

### ENCLOSURES (check all that apply)

☐ Fee Transmittal Form

☐ Fee attached

☐ Amendment/Reply

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/  
Incomplete Application

☐ Response to Missing Parts under  
37 CFR 1.52 or 1.53

☐ Assignment Papers  
(for an Application)

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition to Convert to a Provisional  
Application

☐ Power of Attorney, Revocation  
Change of Correspondence Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s) \_\_\_\_\_

☐ After Allowance Communication  
to Group

☐ Appeal Communication to Board  
of Appeals and Interferences

☐ Appeal Communication to Group  
(Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☒ Other Enclosure(s)  
(please identify below):

Remarks

Request for Reconsideration of Petition to Withdraw Abandonment (7 pgs);

with Exhibits 1 through 6;  
Certificate of First Class Mailing 1 pg);

Return postcard;

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MAY 27 2004

Technology Center 2000

☒ Customer Number or Bar Code Label

26379

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to  
Deposit Account No. 07-1896. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

GRAY CARY WARE & FRIEDENRICH LLP

Dated: "May 21, 2004"

By:

Attorney Name: Timothy V. Lohse  
Reg. No. 35,255  
Attorneys for Applicant(s)  
2000 University Avenue  
East Palo Alto, California 94303  
650/833-2055

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail with sufficient postage and  
addressed to: U.S. Patent and Trademark Office, Mail Stop Issue Fee, P.O. Box 1450, Alexandria, VA 22313-1450

Typed or printed name Cathy Pittman

Signature

Date

May 21, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#23

Petition  
w/ Abr

Applicants: Eliezer Pasternak

Serial No.: 09/528,111

Group Art Unit: 2631

Filed: March 17, 2000

Examiner: J. Corrielus

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY  
LINKS

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail with sufficient postage and addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the following date:

Dated: May 21, 2004

Cathy Pittman

\*\*\*

REQUEST FOR RECONSIDERATION OF DECISION ON PETITION TO WITHDRAW  
ABANDONMENT PER 37 CFR §1.181

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Technology Center 2600

Dear Commissioner:

Pursuant to 37 CFR 1.181, Applicant contends that the above-identified patent application is not abandoned and requests reconsideration of the Decision on Petition to Withdraw Holding of Abandonment (the "Decision") mailed March 24, 2004. This request is filed within two months of the mailing date of the Decision and is therefore timely filed.

The decision on the petition mailed on March 24, 2004 notes that the margins were incorrect as indicated on the Notice of Draftsperson's Review attached to the supplemental

Notice of Allowability mailed on July 18, 2003. Applicant believes that this is inaccurate and that the application should not be abandoned.

Enclosed herewith is a more complete and supplemental copy of the evidence that proves that a withdrawal of the Notice of Abandonment is appropriate.

The Patent Office issued a Notice of Allowability on May 19, 2003 (see Exhibit 1), in response to Applicant's amendment filed on April 14, 2003, and the telephonic interview on May 14, 2003. In the Notice of Allowability, the Examiner indicated that Corrected Drawings must be submitted no later than payment of the issue fee incorporating (1) the changes indicated in the Notice of Draftsperson's Patent Drawing Review dated May 16, 2003 (see Exhibit 1); (2) the proposed drawing corrections filed April 14, 2003, which were approved by the Examiner; and (3) the changes required by the Examiner's Amendment dated May 14, 2003, attached to the May 19, 2003 Notice of Allowance. The Notice of Draftsperson's Patent Drawing Review noted improper margins on Figures 5, 8, 9, 12 and 15.

On June 9, 2003, Applicant submitted formal drawings (see Exhibit 2) which incorporated the changes approved by the Examiner and the changes from the Notice of Draftsperson's Review.

On July 18, 2003, a supplemental Notice of Allowability was mailed (see Exhibit 3) that included an interview summary. Although it indicated a Notice of Draftsperson's Review ("Notice") (see checkbox 8), it did not indicate that the Notice was attached to the supplemental Notice of Allowability (see bottom of the Notice) and in fact no Notice was attached.

On August 18, 2003, Applicant submitted the Issue Fee payment (see Exhibit 4) without additional corrected drawings since they were submitted previously on June 9, 2003, and no new Notice of Draftsperson's review was attached to the supplemental Notice of Allowability.

A Notice of Abandonment (see Exhibit 5) dated January 9, 2004, was received by Applicant on January 26, 2004;

On January 30, 2004, Applicant filed a Petition to Withdraw Abandonment (see Exhibit 6) referencing the timely submitted formal drawings and stamped return postcard and attaching copies of the referenced Submission of Formal Drawings and postcard to the Petition and Attachment A. The documents used as Attachment A were not intended to be used as substitute formal drawings but were attached primarily to show the substance of what was submitted and for which receipt was acknowledged by the U.S. Patent and Trademark Office as indicated by the stamped return postcard.

Applicant respectfully requests that the Examiner review the formal drawings re-submitted herewith (see Exhibit 2) and attests that these are a true and correct copy of the formal drawings submitted on June 9, 2003, which incorporated Applicant's amendments, the Examiner's requested amendments and the Draftsperson's Patent Drawing Review included in the May 19, 2003 Notice of Allowance.

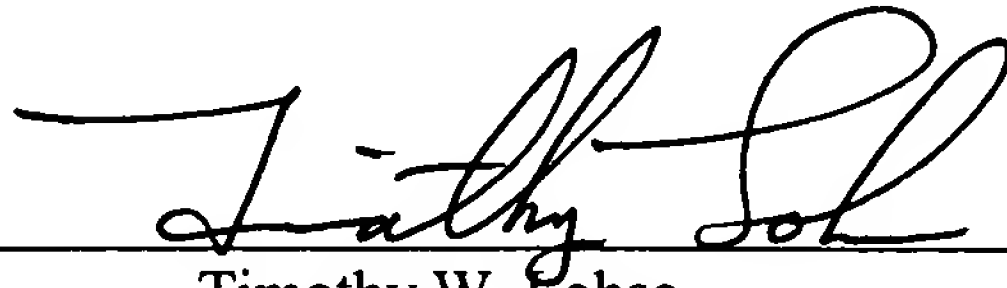
The Notice of Abandonment should be withdrawn because:

- 1) The submitted formal drawings on June 9, 2003, had sufficient margins;
- 2) the supplemental Notice of Allowability did not attach a Notice of Draftsperson's Review (see above); and
- 3) the formal drawings submitted on June 9, 2003, had the requisite margins and any Notice of Draftsperson's Review attached to the supplemental Notice of Allowability that objected to the margins would be inappropriate.

If the Commissioner so wishes, s/he is invited to call the number listed below. Any fee due for this Petition may be charged to Deposit Account No. 07-1896.

Respectfully submitted,

Dated: May 21, 2004

A handwritten signature in black ink, appearing to read "Timothy Lohse", written over a horizontal line.

Timothy W. Lohse  
Reg. No. 35,255  
Attorney for Applicant

GRAY CARY WARE & FREIDENRICH LLP  
2000 University Avenue  
East Palo Alto, CA 94303-2248  
(650) 833-2000



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

PATENT DOCKET

DATE: May 22, 2003  
ACTION: Issue Fee + F. Drawings  
DUE: 19 August 2003  
DEAD EXAMINER

NOTICE OF ALLOWANCE AND FEE(S) DUE

26379 7590 05/19/2003

GARY CARY WARE & FREIDENRICH LLP  
1755 EMBARCADERO ROAD  
PALO ALTO, CA 94303-3340

CORRIELUS, JEAN B

ART UNIT	CLASS-SUBCLASS
2631	375-298000

DATE MAILED: 05/19/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	Eli Pasternak	BRIDGE-1110	4152

TITLE OF INVENTION: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	08/19/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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GRAY CARY  
WARE & FREIDENRICH



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Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	Eli Pasternak	BRIDGE-1110	4152
26379	7590	05/19/2003	EXAMINER	
GARY CARY WARE & FREIDENRICH LLP 1755 EMBARCADERO ROAD PALO ALTO, CA 94303-3340 UNITED STATES			CORRIELUS, JEAN B	
			ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 05/19/2003

## Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (<http://pair.uspto.gov>)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	Eli Pasternak	BRIDGE-1110	4152
26379	7590	05/19/2003	EXAMINER	
GARY CARY WARE & FREIDENRICH LLP 1755 EMBARCADERO ROAD PALO ALTO, CA 94303-3340 UNITED STATES			CORRIELUS, JEAN B	
			ART UNIT	PAPER NUMBER
			2631	16

DATE MAILED: 05/19/2003

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: <http://www.uspto.gov/main/howtofees.htm>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Notice of Allowability

Application No.

09/528,111

Examiner

Jean B Corrielus

Applicant(s)

PASTERNAK ET AL.

Art Unit

2631

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/14/03.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
  - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☒ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☒ including changes required by the proposed drawing correction filed 14 April 2003, which has been approved by the Examiner
  - (c) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- |  |   |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input checked="" type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 4 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. _____.   |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____.              | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9 <input type="checkbox"/> Other  |

*Jean B Corrielus*  
**JEAN B. CORRIELUS**  
**PRIMARY EXAMINER**

J-14-03

<b>Interview Summary</b>	Application No.	Applicant(s)	
	09/528,111	PASTERNAK ET AL.	
	Examiner	Art Unit	
	Jean B Corrielus	2631	

All participants (applicant, applicant's representative, PTO personnel):

(1) Jean B Corrielus. (3)\_\_\_\_\_.

(2) Timothy Lohse. (4)\_\_\_\_\_.

Date of Interview: 14 May 2003.

Type: a) ☒ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☐ No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1, 2, 8 and 11-18.

Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's rep agrees to amend claims 1, 2 and 8 and to cancel claims 11-18, as indicated in the attached examiner's amendment. Such amendment is necessary to overcome a potential claim rejection and/or objection so as to advance prosecution.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

i) ☒ It is not necessary for applicant to provide a separate record of the substance of the interview(if box is checked).

Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

\_\_\_\_\_  
Examiner's signature, if required

Art Unit: 2631

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Timothy Lohse on 5/14/03.

2. The application has been amended as follows:

#### **IN THE CLAIMS:**

Claim 1, line 6, "input signals" has been replaced by --one or more time-discrete samples--; line 7, "subspaces" has been replaced by --subspace--.

Claim 2, line 6, "selecting" has been replaced by --selected--; line 6, before transformed, -one or more-- has been inserted.

Claims 11-18 have been canceled.

### **DRAWINGS**

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: modualtor and demodualtor have been replaced by modulator and demodulator, in figs. 3, 7 and 8, respectively. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Art Unit: 2631

### **REASONS FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance: a modulation apparatus is disclosed. The closest prior art Betts et al, US patent No. 5,844,944, disclosed a similar apparatus. However, Betts et al does not teach the limitations of "wherein said analog output symbols represent amplitude values of a selected subspace of a stretched transformation of the aggregated input signals and said digital output symbols represent an indication of the subspace chosen in the stretched transformation" are neither anticipated nor rendered obvious by Betts et al.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (703) 305-4378.

Art Unit: 2631

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

  
Jean B. Cornelius 5.14.03

Primary Examiner

TC-2600

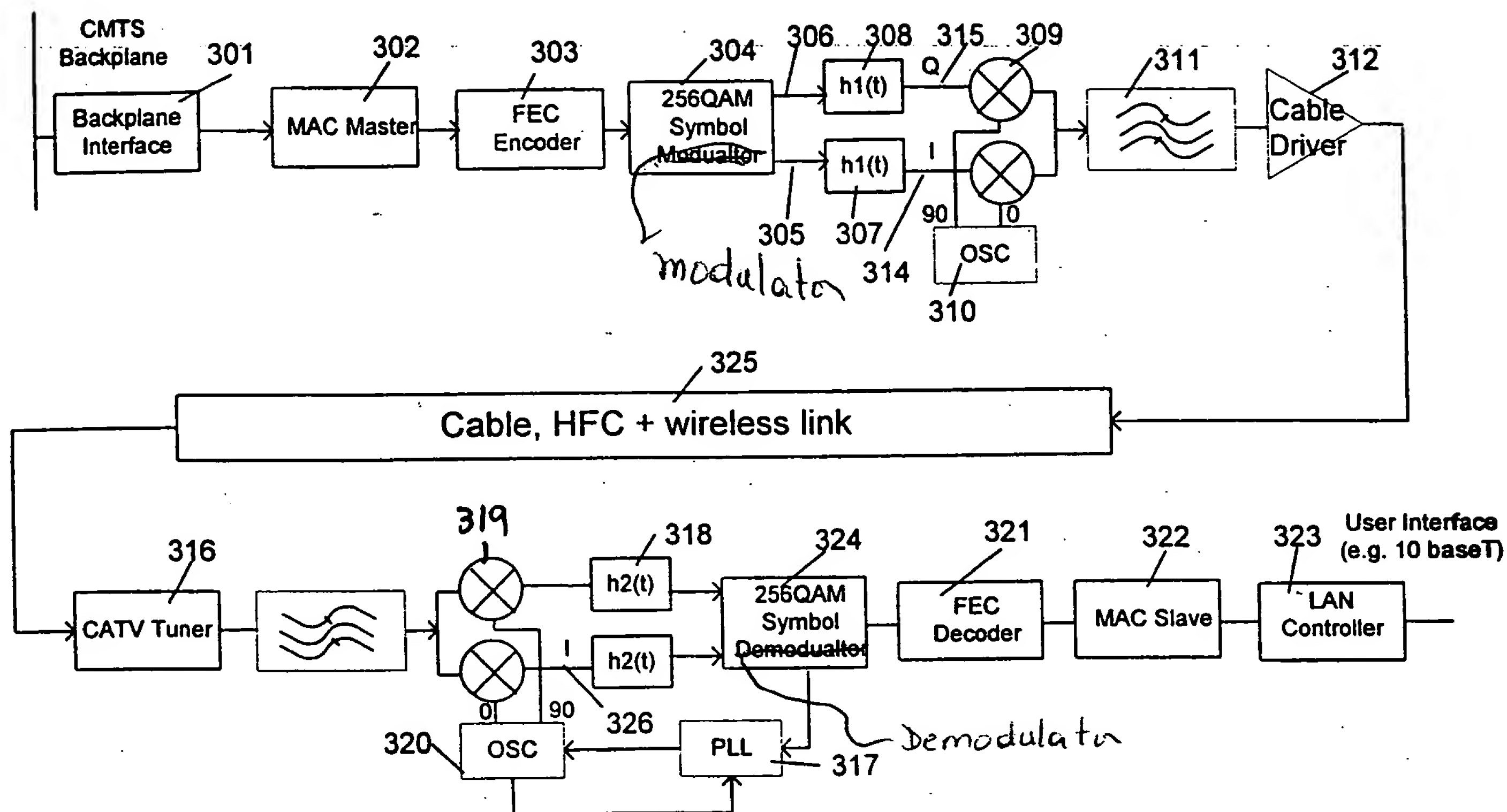


Figure 3

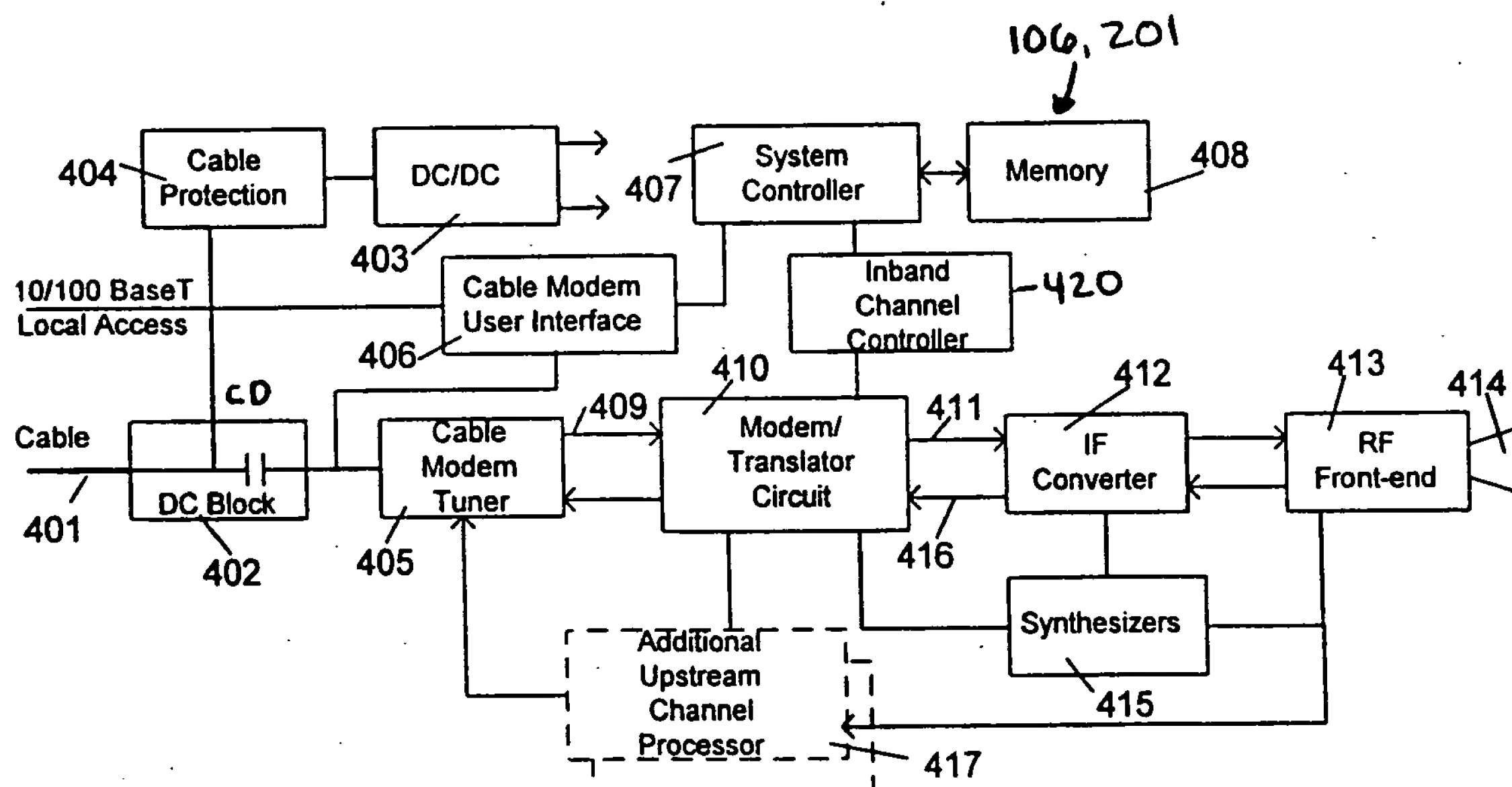


Figure 4

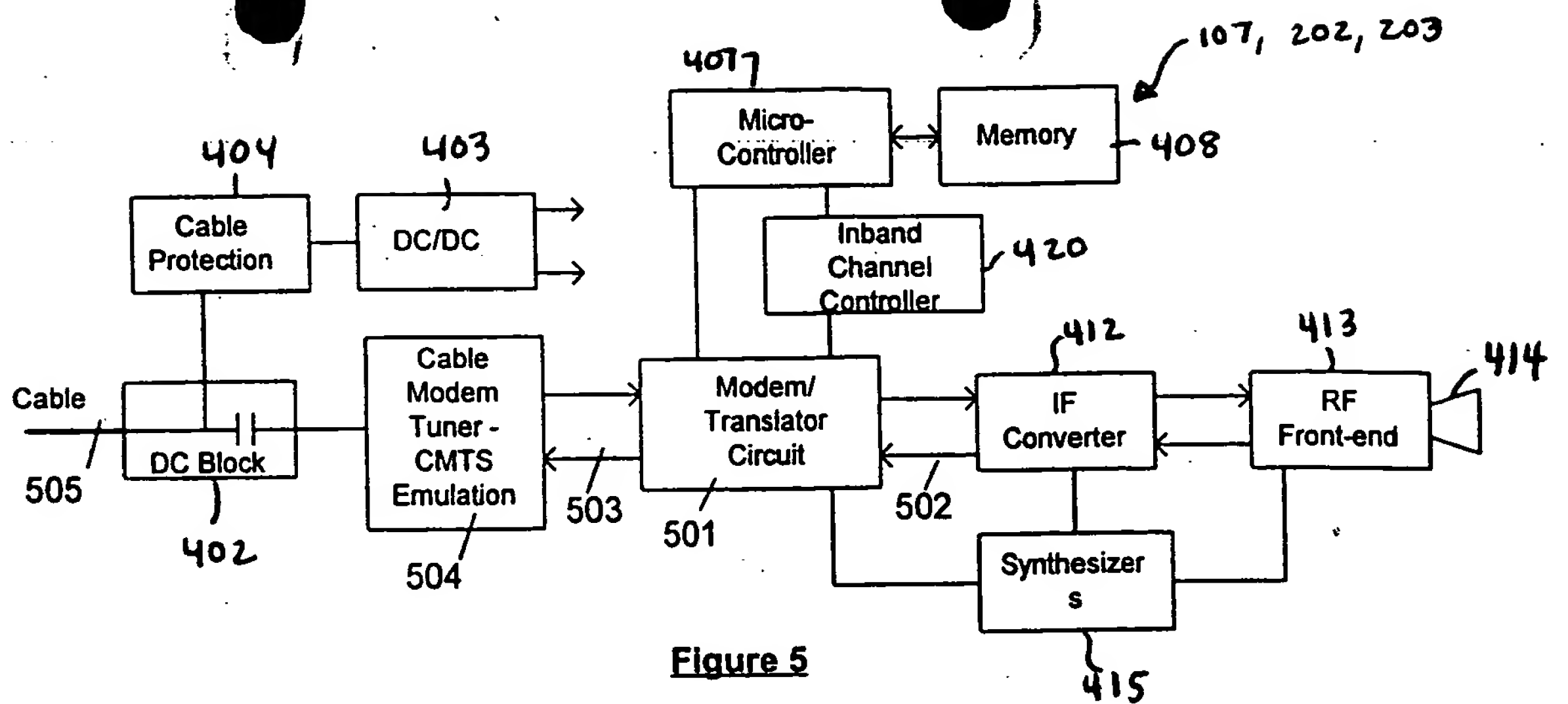


Figure 5

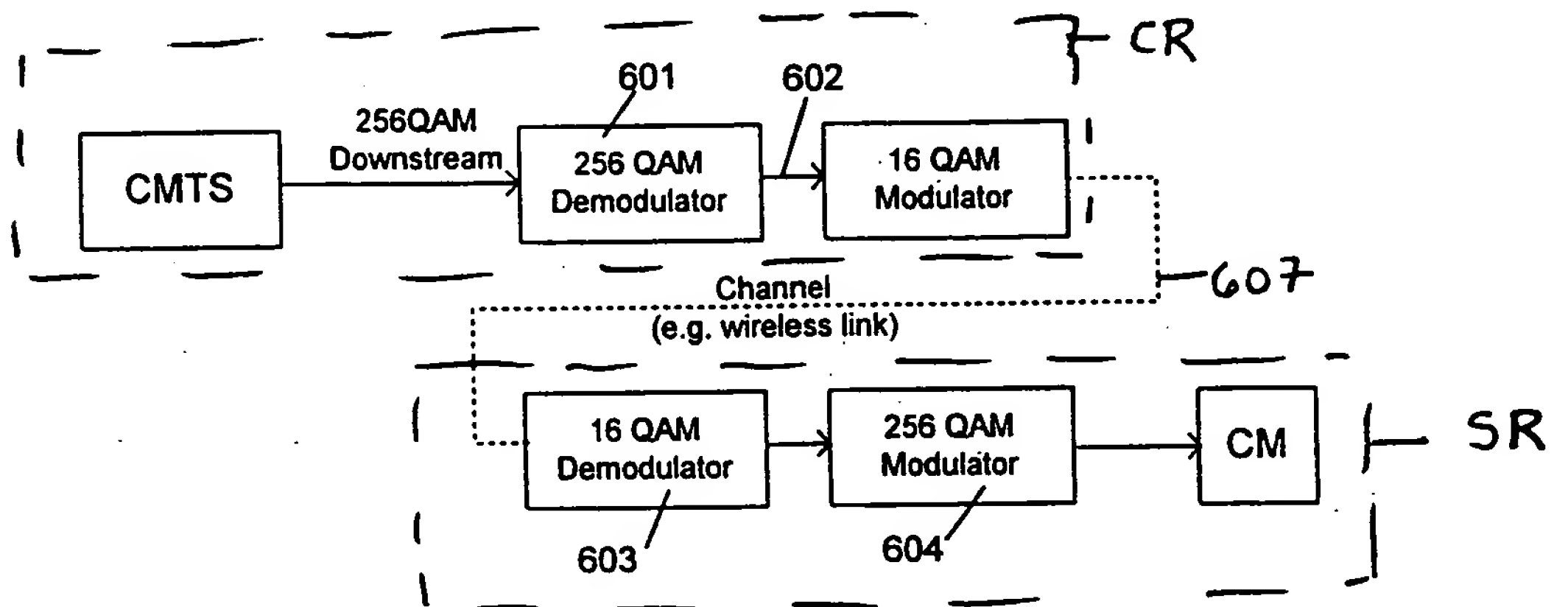


Figure 6

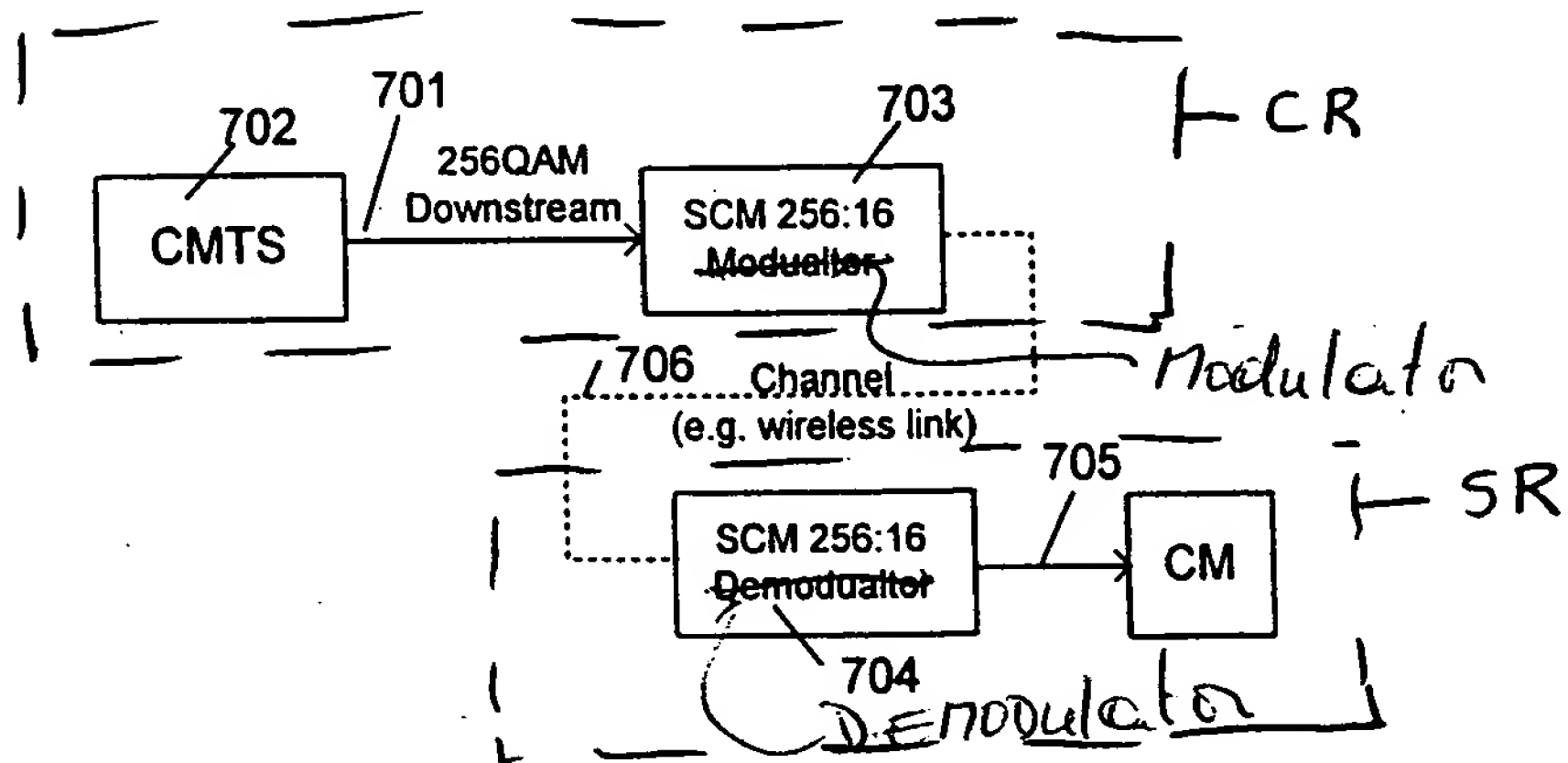
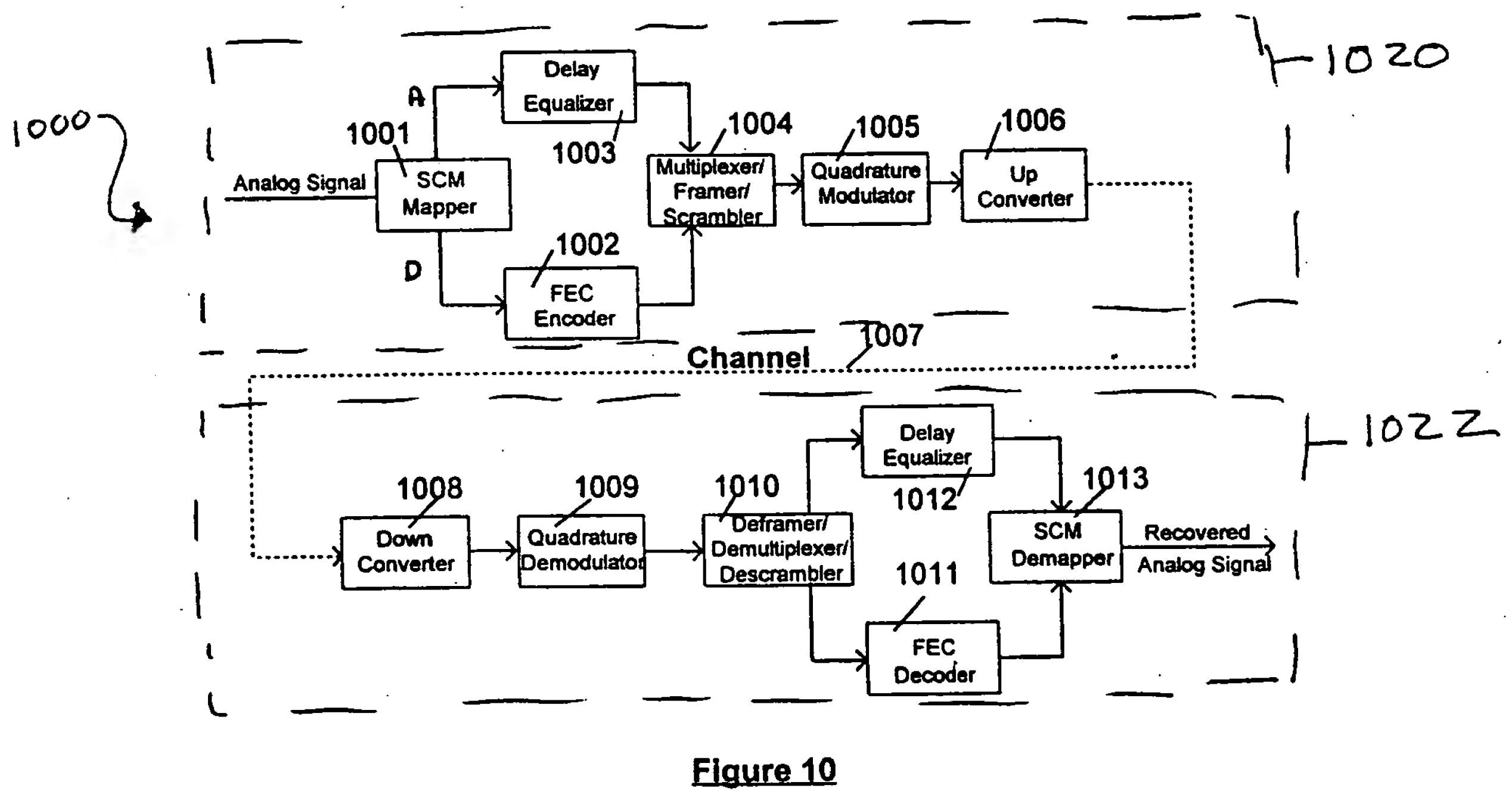
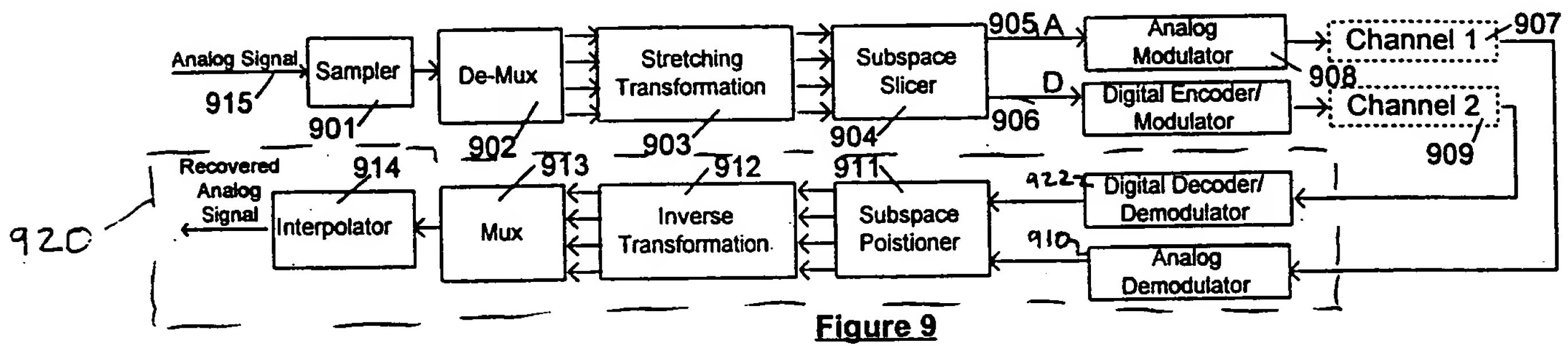
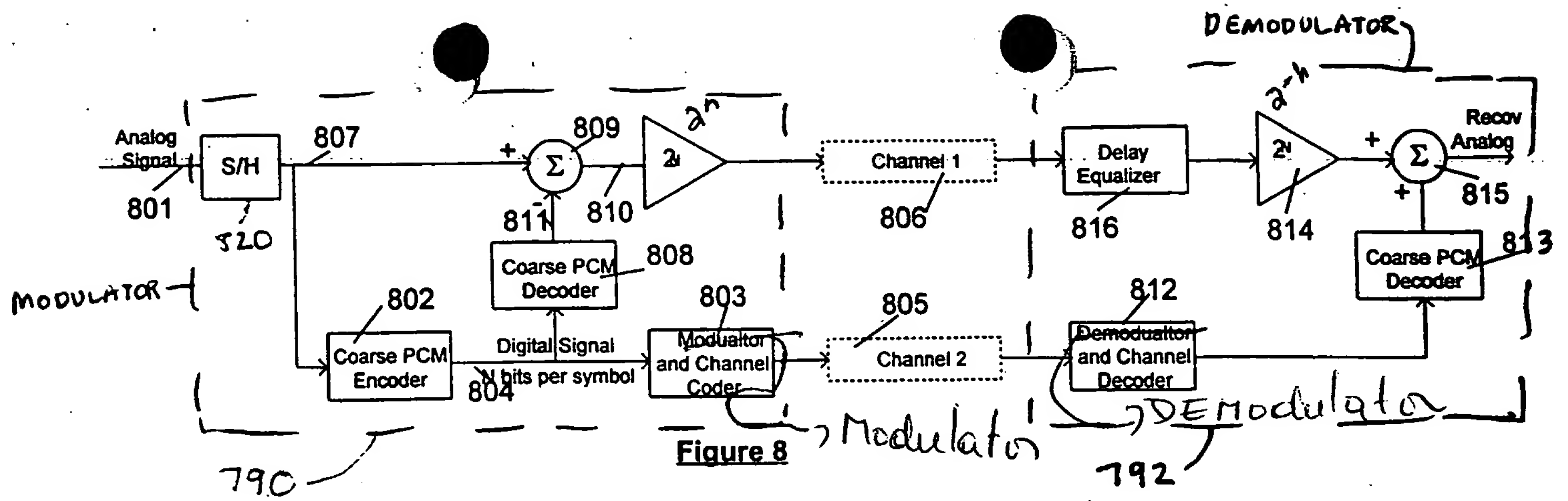


Figure 7



## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case unless both applicant and examiner agree that the examiner will record same. Where the examiner agrees to record the substance of the interview, or when it is adequately recorded on the Form or in an attachment to the Form, the examiner should check the appropriate box at the bottom of the Form which informs the applicant that the submission of a separate record of the substance of the interview as a supplement to the Form is not required.

It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

# **Revised Notice\***

## **AMENDMENTS MAY NOW BE SUBMITTED IN REVISED FORMAT**

The United States Patent and Trademark Office (USPTO) is permitting applicants to submit amendments in a revised format as set forth below. Further details of this practice are described in *AMENDMENTS IN A REVISED FORMAT NOW PERMITTED*, signed January 31, 2003, expected to be published in *Official Gazette* on February 25, 2003 (Notice posted on the Office's web site at

<http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/revamdtprac.htm> ). The revised amendment format is essentially the same as the amendment format that the Office is considering adopting via a revision to 37 CFR 1.121 (Manner of Making Amendments). The revision to 37 CFR 1.121 (if adopted) will simplify amendment submission and improve file management. The Office plans to adopt such a revision to 37 CFR 1.121 by July of 2003, at which point compliance with revised 37 CFR 1.121 will be mandatory.

Effective immediately, all applicants may submit amendments in reply to Office actions using the following format. Participants in the Office's electronic file wrapper prototype<sup>1</sup> receiving earlier notices of the revised practice may also employ the procedures set out below.

### **REVISED FORMAT OF AMENDMENTS**

#### **Begin on separate sheets:**

Each section of an Amendment (e.g., Claim Amendments, Specification Amendments, Drawing Amendments, and Remarks) should begin on a separate sheet. *For example*, in an amendment containing a.) introductory comments, b.) amendments to the claims, c.) amendments to the specification, and d.) remarks, each of these sections must begin on a separate sheet. This will facilitate the process of separately indexing and scanning of each part of an amendment document for placement in an electronic file wrapper.

#### **Two versions of amended part(s) no longer required:**

The current requirement in 37 CFR 1.121(b) and (c) to provide two versions (a clean version and a marked up version) of each replacement paragraph, section or claim will be waived where an amendment is submitted in revised format below. The requirements for substitute specifications under 37 CFR 1.125 will be retained.

#### **A) Amendments to the claims:**

Each amendment document that includes a change to an existing claim, or submission of a new claim, **must include a complete listing** of all claims in the application. After each claim number, the status must be indicated in a parenthetical expression, and the text of each claim under examination (with markings to show current changes) must be presented. The listing will serve to replace all prior versions of the claims in the application.

- (1) The current status of all of the claims in the application, including any previously canceled or withdrawn claims, must be given. Status is indicated in a parenthetical expression following the claim number by one of the following: (original), (currently amended), (previously amended), (canceled), (withdrawn), (new), (previously added), (reinstated – formerly claim #\_), (previously reinstated), (re-presented – formerly dependent claim #\_), or (previously re-presented). The text of all pending claims under examination must be submitted each time any claim is amended. Canceled and withdrawn claims should be indicated by only the claim number and status.
- (2) All claims being currently amended must be presented with markings to indicate the changes that have been made relative to the immediate prior version. The changes in any amended claim should be shown by strikethrough (for deleted matter) or underlining (for added matter). An accompanying clean version is not required and should not be presented. Only claims of the status "currently amended" will include markings.
- (3) The text of pending claims not being amended must be presented in clean version, i.e., without any markings. Any claim text presented in clean version will constitute an assertion that it has not been changed relative to the immediate prior version.

<sup>1</sup> The Office's Electronic File Wrapper prototype program is described in *USPTO ANNOUNCES PROTOTYPE OF IMAGE PROCESSING*, 1265 Off. Gaz. Pat. Office 87 (Dec. 17, 2002) ("Prototype Announcement"), and applies only to Art Units 1634, 2827 and 2834.



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENT AND TRADEMARK OFFICE  
WASHINGTON, DC 20503  
www.uspto.gov

Dear Patent and Trademark Office Customer:

It is important to us that you are satisfied with the services we provide. Therefore, Technology Center 2600 would like to take this opportunity to tell you about one of our most successful customer service projects, our Customer Service Office (CSO), and to ask you for your help in expanding this project. Conventionally filed amendments and inquiries are received at the USPTO's central mail room and pass through numerous processing stages before they arrive in Technology Center 2600. Each processing stage adding inherent chances for mishandling and delay. To improve inquiry and amendment handling Technology Center 2600's Customer Service Office was established to directly receive and process faxed amendments and inquiries.

Over the last two years there has been a rapid growth in the volume of these faxes. In the first quarter of FY01, 1300 faxed amendments were received. In the first quarter of FY02, this increased to 1900 faxed amendments, and in the first quarter of FY03, there was an even greater increase to 3000 faxed amendments. Similarly, the number of status inquiries received by our CSO has steadily grown and in the first quarter of FY03, there were 2280 status inquiries. More importantly, as the number of amendments and inquiries has increased, the CSO processing time has decreased. Currently the average amendment processing time from receipt to case entry is well under 4 days. Filing through Technology Center 2600's CSO has proven to be a great improvement over the conventional method for both our customers and us. As an added benefit we can tell you that to date we have not experienced a single instance where an application had to be subsequently processed for the withdrawal of the holding of abandonment based upon a lost amendment submitted through this process. If you are already using the Technology Center 2600 CSO, we thank you. If you are not, please consider using our Customer Service Office and help us expand its success.

### Amendments and Status Inquiries by Fax - 703-872-9314:

For After Final amendments, our goal is to have official faxes matched, entered and delivered to the SPE/examiner within 48 hrs from receipt. For all other official documents our goal is to have official faxes entered within 72 hours of receipt. *If we cannot match your fax with the case, we will call you to let you know the status.* Please use fax number 703-872-9314 for ALL Technology Center 2600 official communications.

### Status Inquiries by Telephone - 703-306-0377:

The Technology Center 2600 Customer Service Office is open to serve you from 8:30am to 5pm EST. Our main telephone number is 703-306-0377. If you need information regarding your application, feel free to give us a call.

In order to assist you quicker, we ask that on the cover sheet, you indicate how many pages you're transmitting and a point of contact in case of any errors that might arise. If your fax machine is properly programmed with your heading and fax number, you will receive an automated receipt confirming reception of your fax. If you prefer to call and confirm receipt of your fax, a point of contact from our customer service office is provided below.

Thank you,  
Arthur McCloud  
Technology Center 2600 Customer Service Office

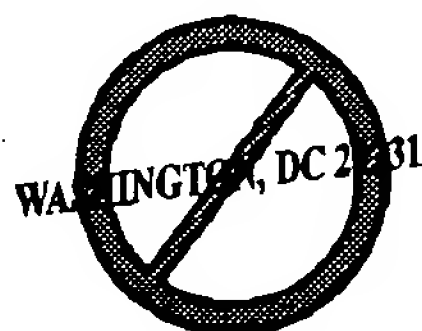
# The United States Patent and Trademark Office has changed certain mailing addresses!

Effective May 1, 2003

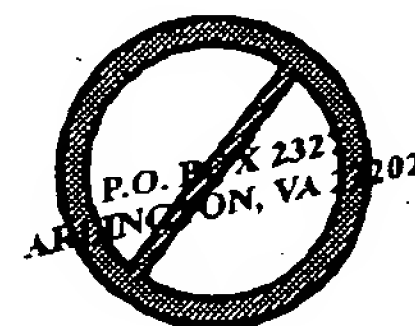
Use the address provided in this flyer after May 1, 2003 for any correspondence with the United States Patent and Trademark Office (USPTO) in patent-related matters to organizations reporting to the Commissioner for Patents.

**DO NOT USE** the Washington DC 20231 and P.O. Box 2327 Arlington, VA 22202 addresses after May 1, 2003 for **any correspondence** with the USPTO even if these old addresses are indicated in the accompanying Office action or Notice or in any other action, notice, material, form, instruction or *other* information.

Correspondence in patent-related matters to organizations reporting to the Commissioner for Patents must now be addressed to:



**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**



## Special Mail Stop designations to replace Special Box designations

Also effective May 1, 2003, the USPTO is changing the special Box designations for **Patents and Trademarks** to corresponding Mail Stop designations (e.g., "Box 4" will now be "Mail Stop 4").

For further information, see *Correspondence with the United States Patent and Trademark Office*, 68 Fed. Reg. 14332 (March 25, 2003). A copy of the *Federal Register* notice is available on the USPTO's web site at <http://www.uspto.gov/web/menu/current.html#register>

A listing of specific USPTO mailing addresses (See Patents – specific) will be available on the USPTO's web site on April 15, 2003 at <http://www.uspto.gov/main/contacts.htm>

Persons filing correspondence with the Office should check the rules of practice, the Official Gazette, or the Office's Internet Web site ([www.uspto.gov](http://www.uspto.gov)) to determine the appropriate address and Mail Stop Designation (if applicable) for all correspondence being delivered to the USPTO via the United States Postal Service (USPS).

Questions regarding the content of this flyer should be directed to the Inventor Assistance Center at (703) 308-4357 or toll-free at 1-800-786-9199.

**Attachment for PTO-948 (Rev. 03/01, or earlier)**  
**6/18/01**

**The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.**

**INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

**1. Correction of Informalities -- 37 CFR 1.85**

New corrected drawings must be filed with the changes **incorporated** therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may **NOT** be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

**2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.**

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

**Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.

## REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1 is changed to Fig 1A, Fig. 1B, Fig.1C, etc., the specification, at the Brief Description of the Drawing, must likewise be changed. Please make such changes by 37 CFR 1.312 Amendment at the time of submitting drawings.

## INFORMATION ON HOW TO EFFECT DRAWING CHANGES

### 1. Correction of Drawings - 37 CFR 1.85

File new drawings with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Review Branch.

### 2. Timing for Corrections

Applicant is required to submit **acceptable** corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37).

Failure to take corrective action within set period will result in **ABANDONMENT** of the Application.

### 3. Corrections other than Defects Noted by the Drawing Review Branch on the Form PTO-948

All changes to the drawings, other than defects noted by the Drawing Review Branch, **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted other than correction of defects, unless the examiner has approved the proposed changes.

09/528111

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEW

The drawing(s) filed (insert date)

3/17/00

A. ☐ approved by the Draftsperson under 37 CFR 1.84 or 1.152.B. ☒ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  
Black ink. Color.☐ Color drawings are not acceptable until petition is granted.

Fig(s) \_\_\_\_\_

☐ Pencil and non black ink not permitted. Fig(s) \_\_\_\_\_

## 2. PHOTOGRAPHS. 37 CFR 1.84(b)

☐ 1 full-tone set is required. Fig(s) \_\_\_\_\_☐ Photographs may not be mounted. 37 CFR 1.84(e)☐ Poor quality (half-tone). Fig(s) \_\_\_\_\_

## 3. TYPE OF PAPER. 37 CFR 1.84(e)

☐ Paper not flexible, strong, white, and durable.

Fig(s) \_\_\_\_\_

☐ Erasures, alterations, overwritings, interlineations,

folds, copy machine marks not accepted. Fig(s) \_\_\_\_\_

☐ Mylar, velum paper is not acceptable (too thin).

Fig(s) \_\_\_\_\_

## 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:

☐ 21.0 cm by 29.7 cm (DIN size A4)☐ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)☐ All drawing sheets not the same size.

Sheet(s) \_\_\_\_\_

☐ Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_

## 5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm

SIZE: A4 Size

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm

SIZE: 8 1/2 x 11

Margins not acceptable. Fig(s) \_\_\_\_\_

☒ Top (T) \_\_\_\_\_

Left (L) \_\_\_\_\_

Right (R) \_\_\_\_\_

Bottom (B) \_\_\_\_\_

## 6. VIEWS. 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

☐ Brackets needed to show figure as one entity.

Fig(s) \_\_\_\_\_

☐ Views not labeled separately or properly.

Fig(s) \_\_\_\_\_

☐ Enlarged view not labeled separately or properly.

Fig(s) \_\_\_\_\_

## 7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)

☐ Hatching not indicated for sectional portions of an object.

Fig(s) \_\_\_\_\_

☐ Sectional designation should be noted with Arabic or

Roman numbers. Fig(s) \_\_\_\_\_

## 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)

☐ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_

## 9. SCALE. 37 CFR 1.84(k)

☐ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.

Fig(s) \_\_\_\_\_

## 10. CHARACTER OF LINES, NUMBERS, &amp; LETTERS.

37 CFR 1.84(i)

☒ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).

Fig(s) 1-18

## 11. SHADING. 37 CFR 1.84(m)

☐ Solid black areas pale. Fig(s) \_\_\_\_\_☐ Solid black shading not permitted. Fig(s) \_\_\_\_\_☐ Shade lines, pale, rough and blurred. Fig(s) \_\_\_\_\_

## 12. NUMBERS, LETTERS, &amp; REFERENCE CHARACTERS.

37 CFR 1.84(p)

☐ Numbers and reference characters not plain and legible.

Fig(s) \_\_\_\_\_

☐ Figure legends are poor. Fig(s) \_\_\_\_\_☐ Numbers and reference characters not oriented in the

same direction as the view. 37 CFR 1.84(p)(1)

Fig(s) \_\_\_\_\_

☐ English alphabet not used. 37 CFR 1.84(p)(2)

Figs \_\_\_\_\_

☐ Numbers, letters and reference characters must be at least

.32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)

Fig(s) \_\_\_\_\_

## 13. LEAD LINES. 37 CFR 1.84(q)

☐ Lead lines cross each other. Fig(s) \_\_\_\_\_☐ Lead lines missing. Fig(s) \_\_\_\_\_

## 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)

☐ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) \_\_\_\_\_

## 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)

☐ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_

## 16. CORRECTIONS. 37 CFR 1.84(w)

☐ Corrections not made from prior PTO-948 dated \_\_\_\_\_

## 17. DESIGN DRAWINGS. 37 CFR 1.152

☐ Surface shading shown not appropriate. Fig(s) \_\_\_\_\_☐ Solid black shading not used for color contrast.

Fig(s) \_\_\_\_\_

## COMMENTS

REVIEWER

A.O.

DATE

5/16/03

TELEPHONE NO.

ATTACHMENT TO PAPER NO.

16

Exhibit 2

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Mailing Date: June 9, 2003  
Attorney Docket No. 2100259-991110 U.S. Serial No.: 09/528,111  
Filing Date: March 17, 2000  
Title: Signal Communications System and Method for Noisy Links

Enclosed are:

- 1) Transmittal Form (1 pg.);
- 2) Transmittal of Formal Drawings (1 pg.);
- 3) Thirteen sheets Formal Drawings (13 pg.);
- 4) Certificate of First Class Mailing (1 pg.); and
- 5) Return Postcard



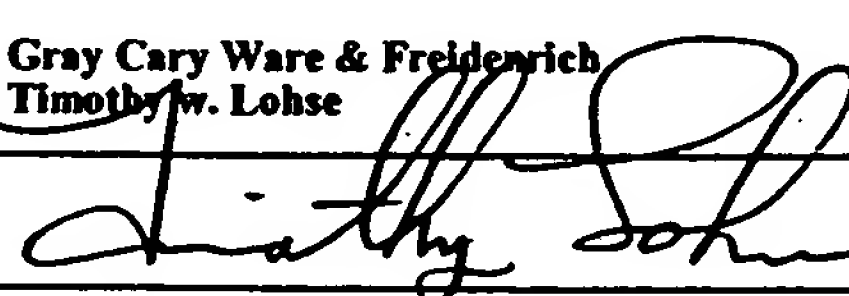
TWL/cp - Bridgewave -  
2100259-991110

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1>TRANSMITTAL FORM</h1> <p>(to be used for all correspondence after initial filing)</p>	Application Number	09/528,111	
	Filing Date	March 17, 2000	
	First Named Inventor	Eliezer Pasternak	
	Group Art Unit	2631	
	Examiner Name	Jean B. Corrielus	
Total Number of Pages in This Submission		Attorney Docket Number	2100259-991110

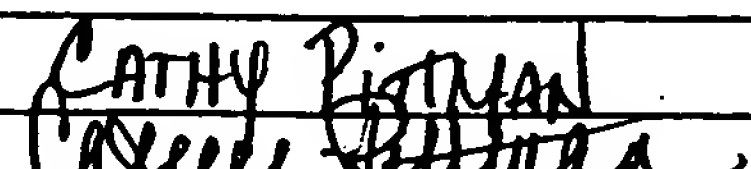
ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): Submission of Formal Dwg (1pg); Thirteen (13) sheets Drawings; Cert. of First Class Mail (1p); Return postcard.
Remarks		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Gray Cary Ware & Freidenrich Timothy W. Lohse
Signature	
Date	June 9, 2003

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Cathy P. Pichman	Date	June 9, 2003
Signature			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Eliezer Pasternak

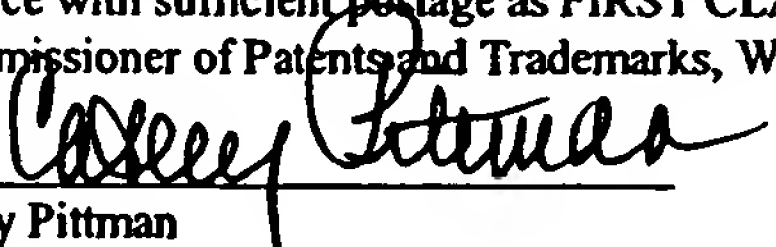
Serial No.: 09/528,111

Examiner: Jean B. Patel

Group Art Unit: 2631

Filed: March 17, 2000

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as FIRST CLASS MAIL in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on:  
  
Cathy Pittman  
June 9, 2003  
Date

**\*\*\* TRANSMITTAL OF FORMAL DRAWINGS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir/Madam:

Transmitted herewith are thirteen (13) sheets of formal drawings relative to the above-identified application.

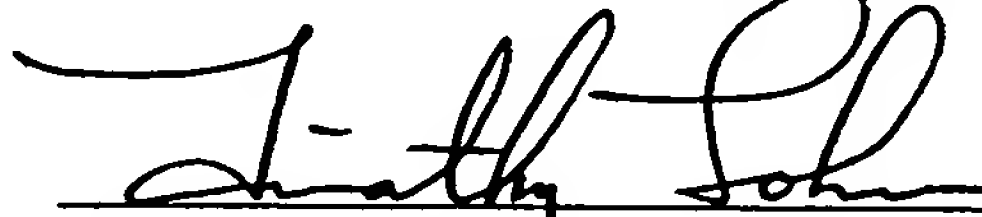
Please address all communications regarding this application to:

Timothy W. Lohse  
Gray Cary Ware & Freidenrich LLP  
1755 Embarcadero Road  
Palo Alto, California 94303-3340

Please direct all telephone calls to Timothy W. Lohse at 650/320-7426.

Respectfully submitted,

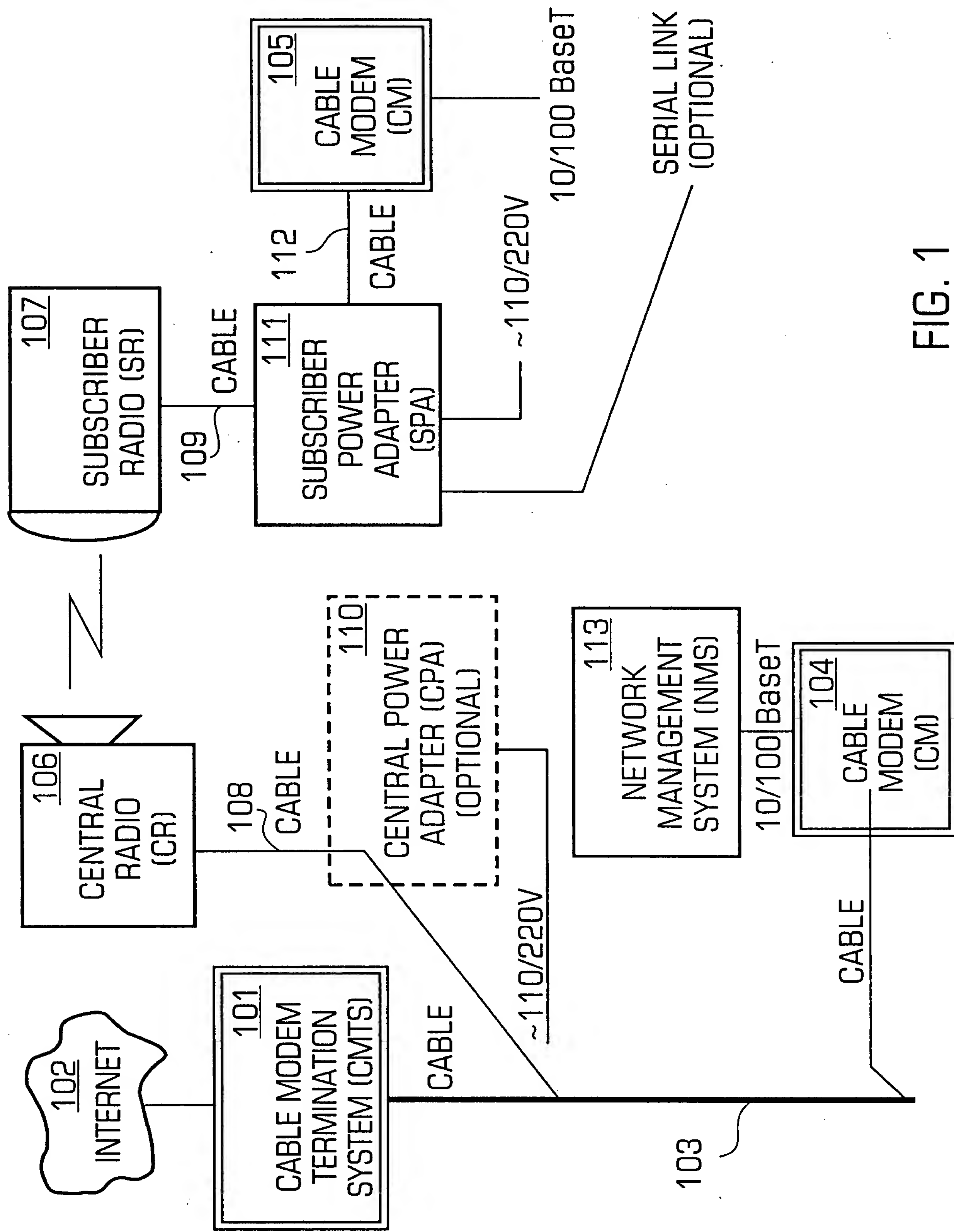
GRAY CARY WARE FREIDENRICH LLP



Timothy W. Lohse  
(Reg. No.35,255)  
Attorneys for Applicants

Dated: June 9, 2003

GRAY CARY WARE & FREIDENRICH LLP  
1755 Embarcadero Road  
Palo Alto, CA 94304-1203  
Tel: 650/320-7536  
Fax: 650/320-7401



164

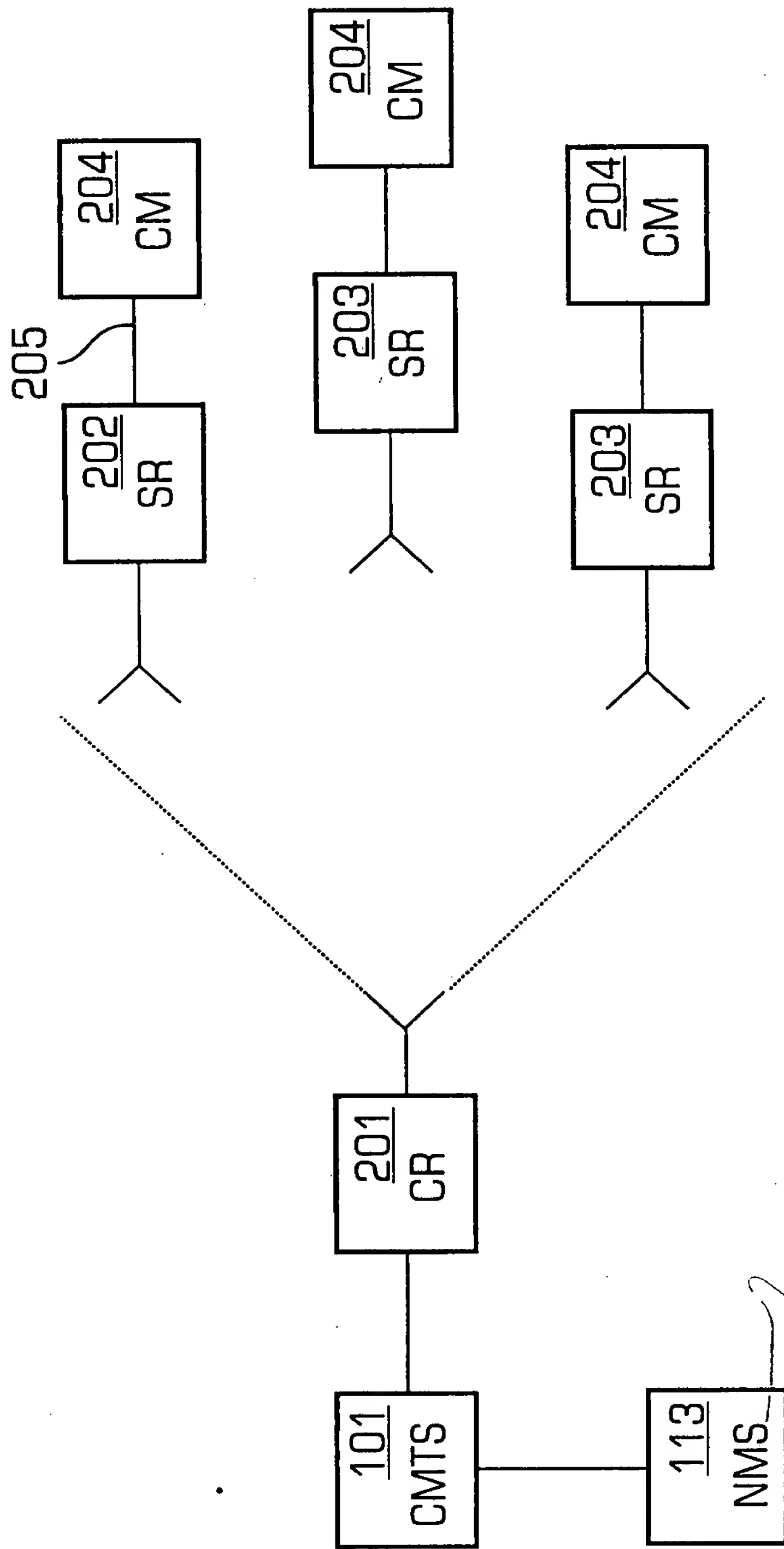


FIG. 2

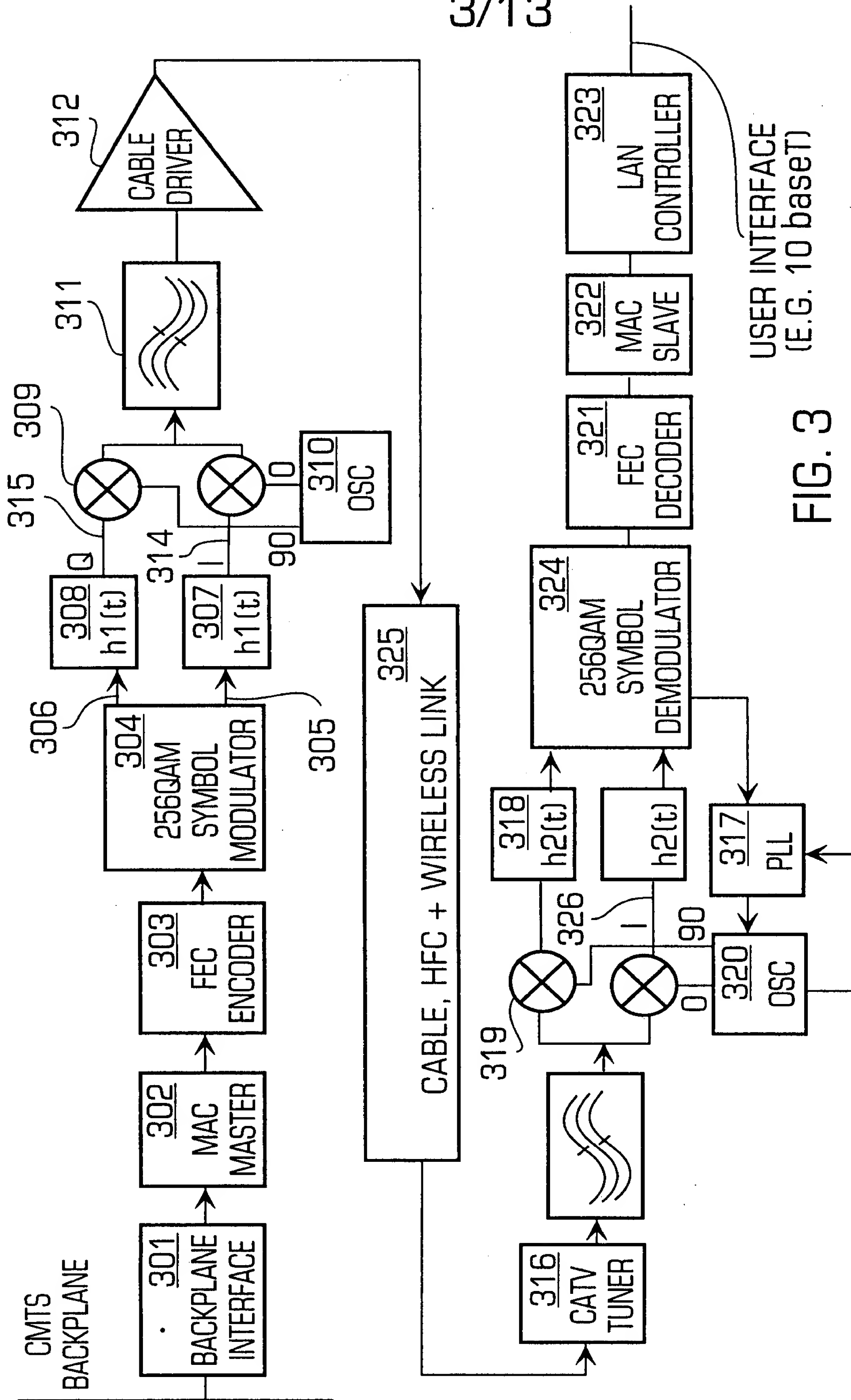


FIG. 3

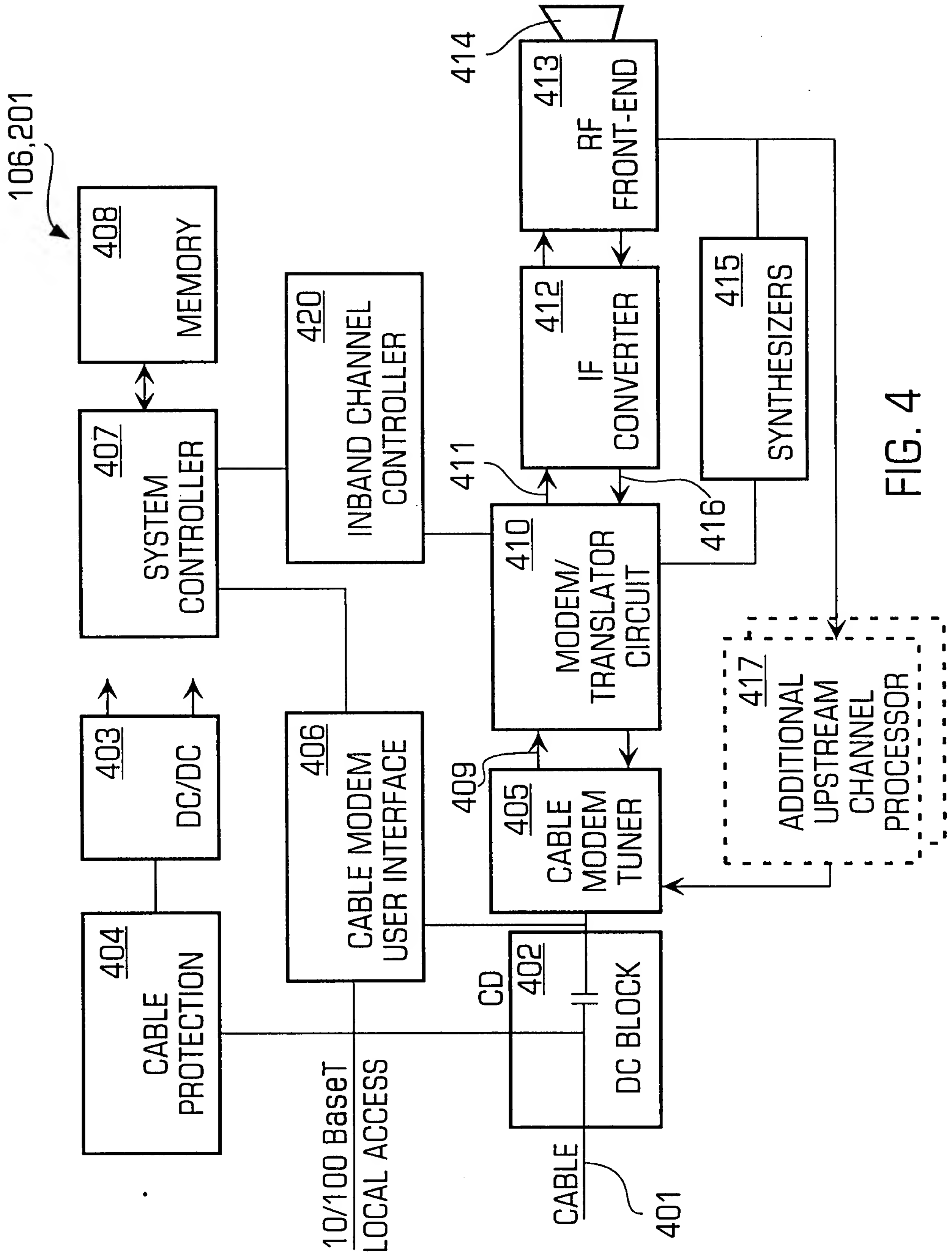
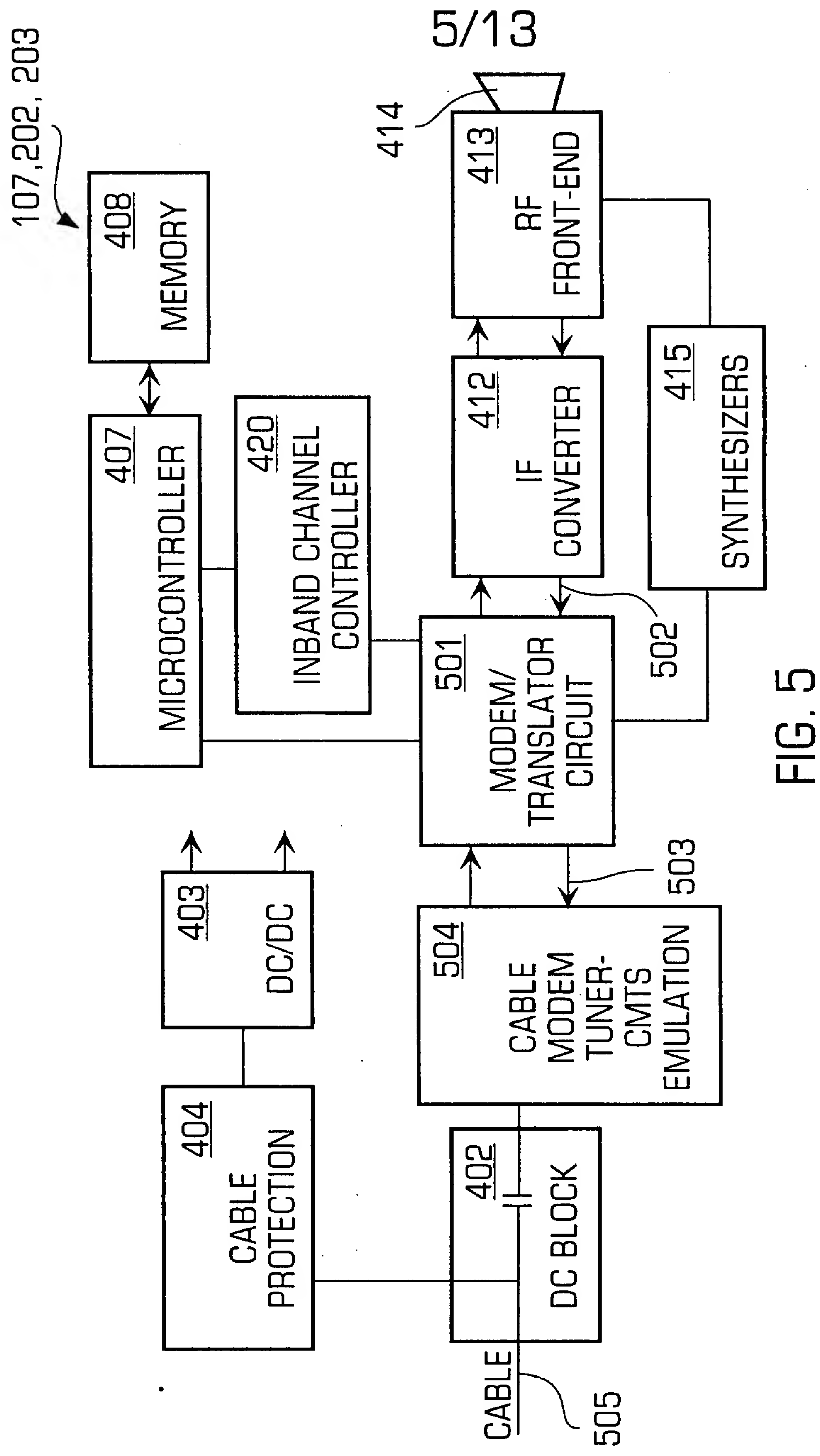


FIG. 4



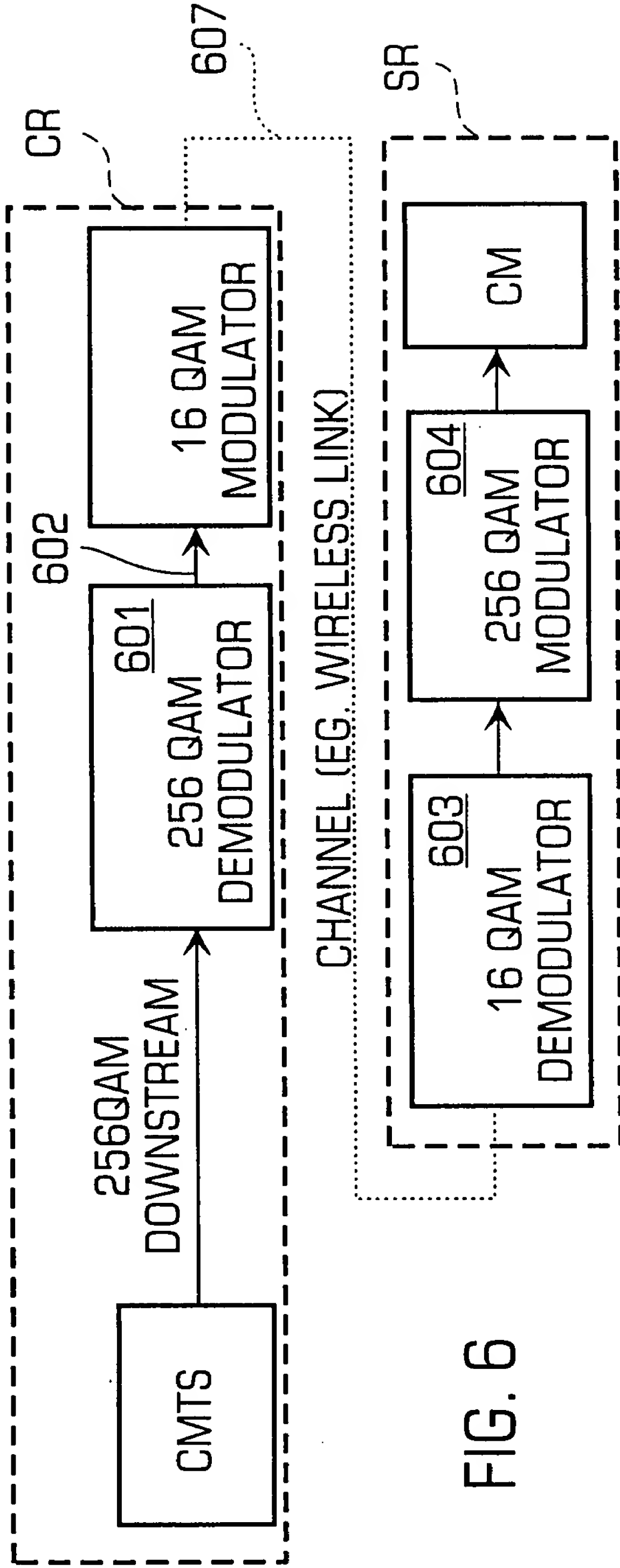


FIG. 6

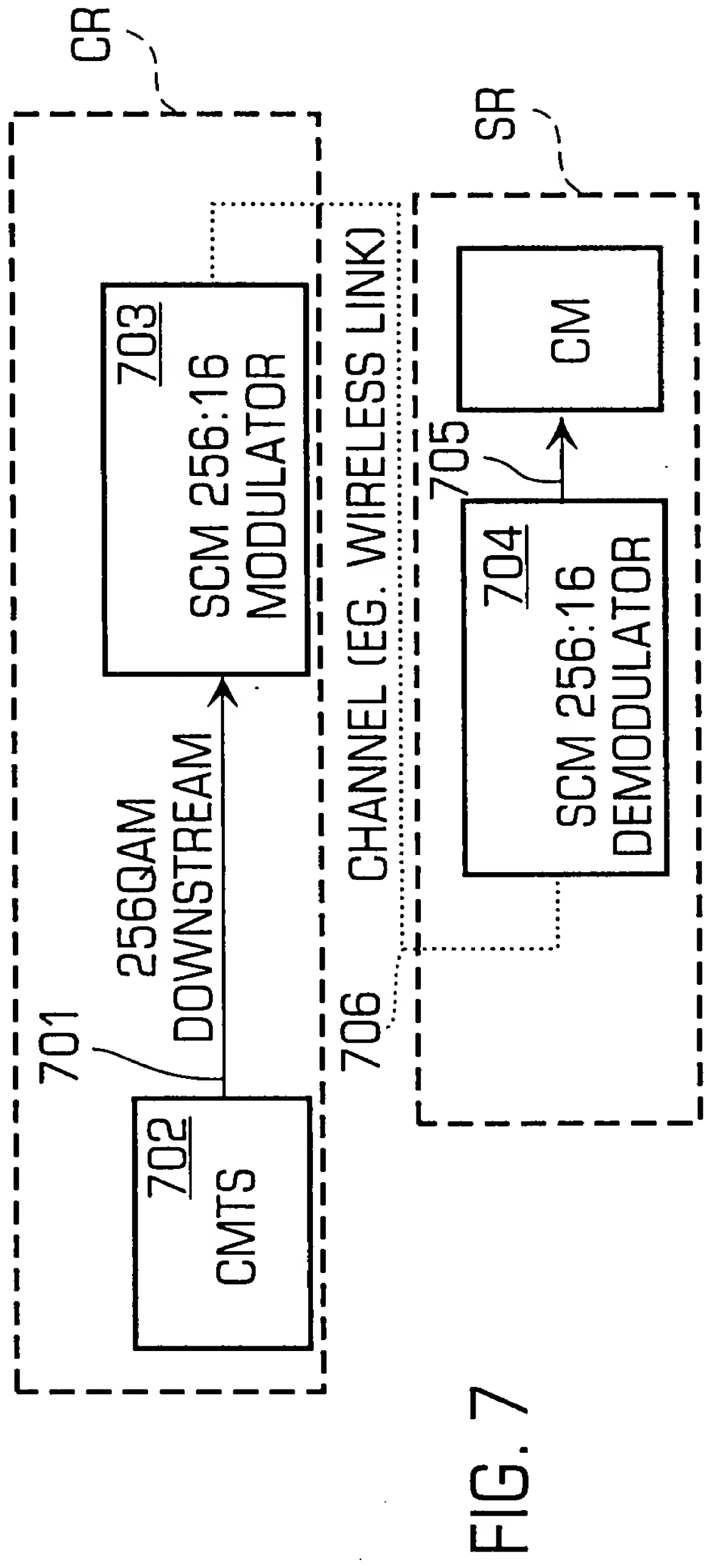
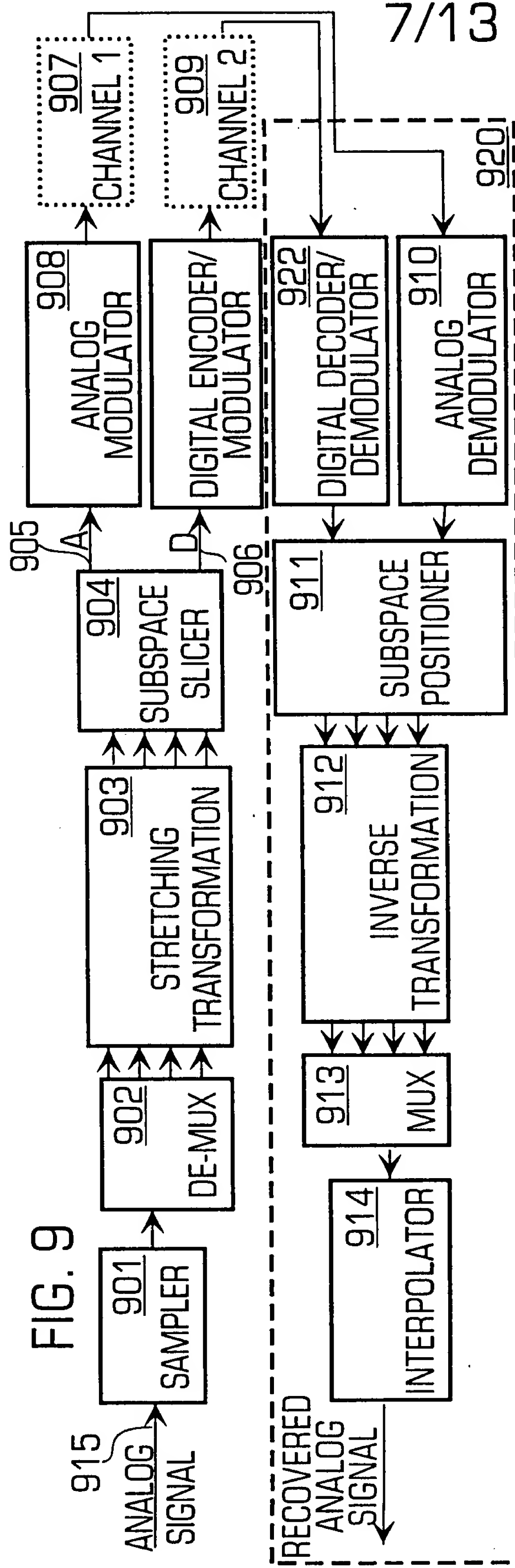
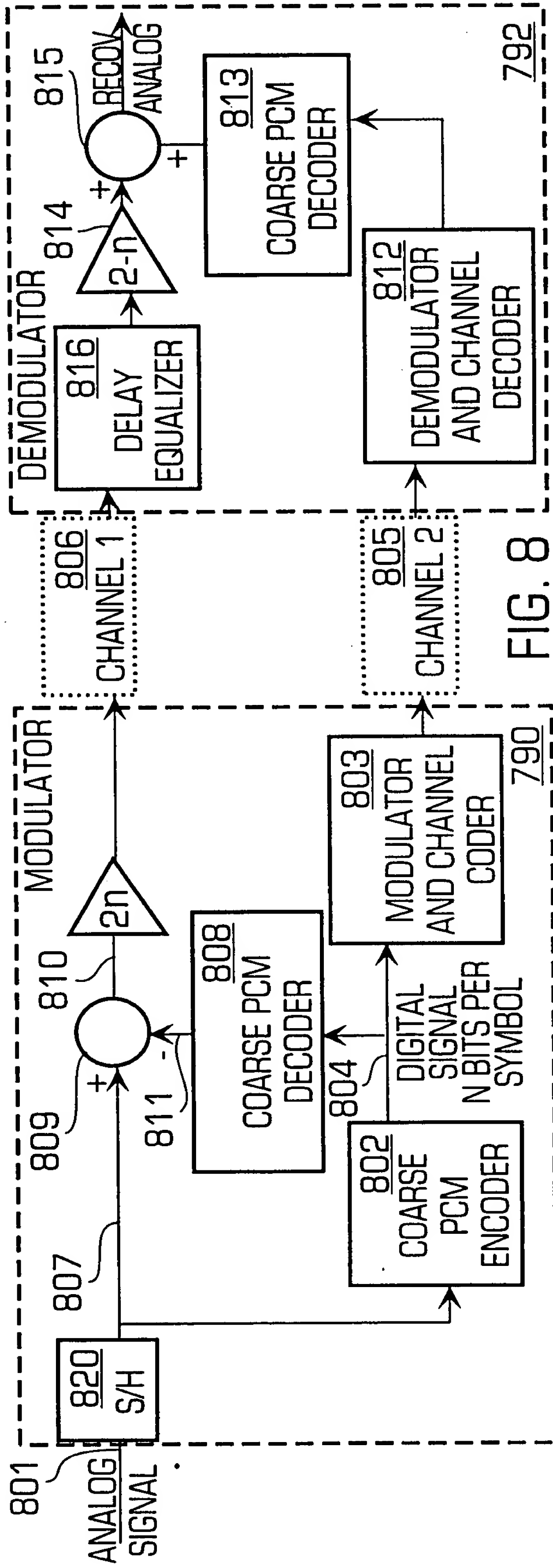
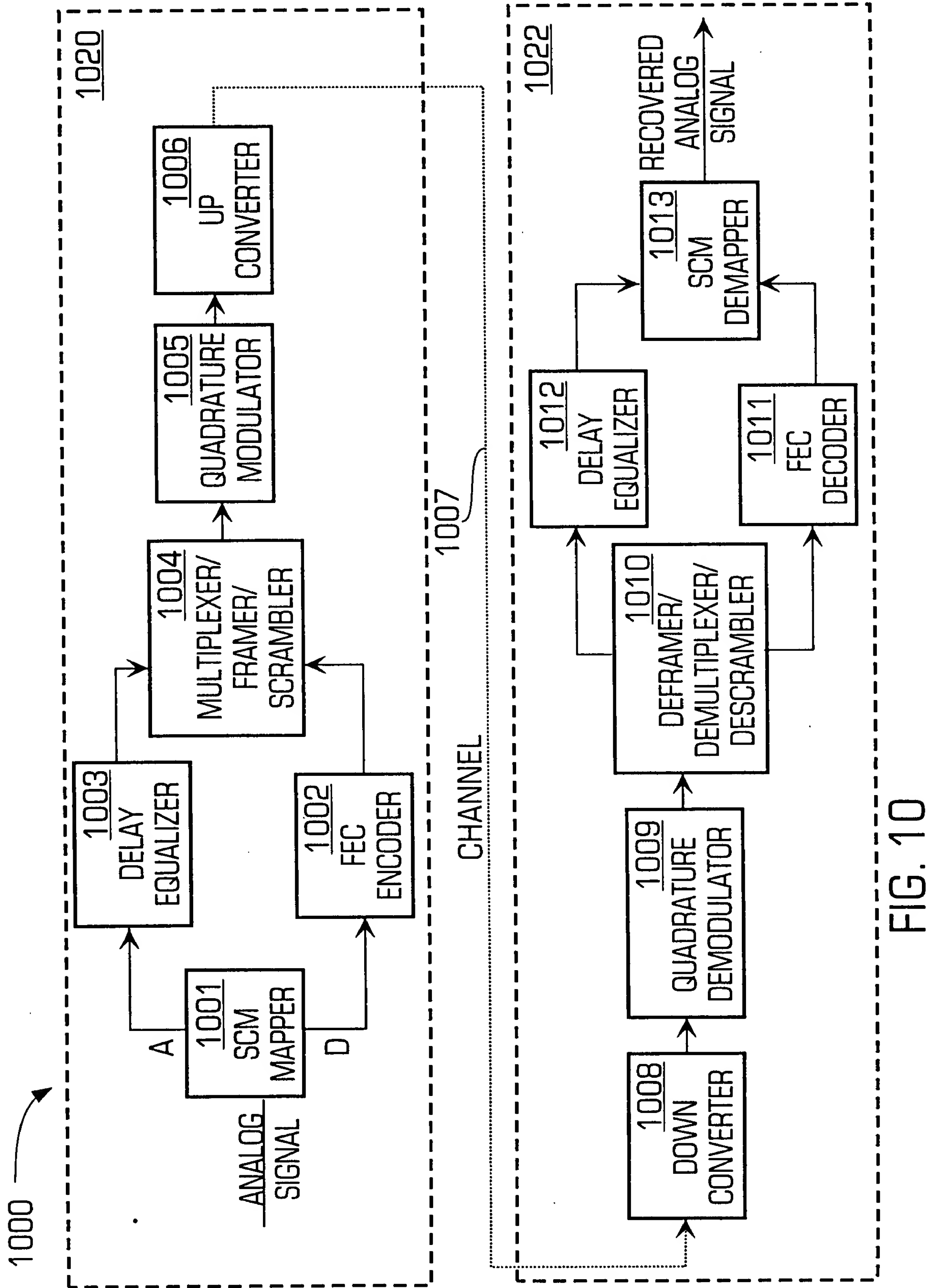


FIG. 7





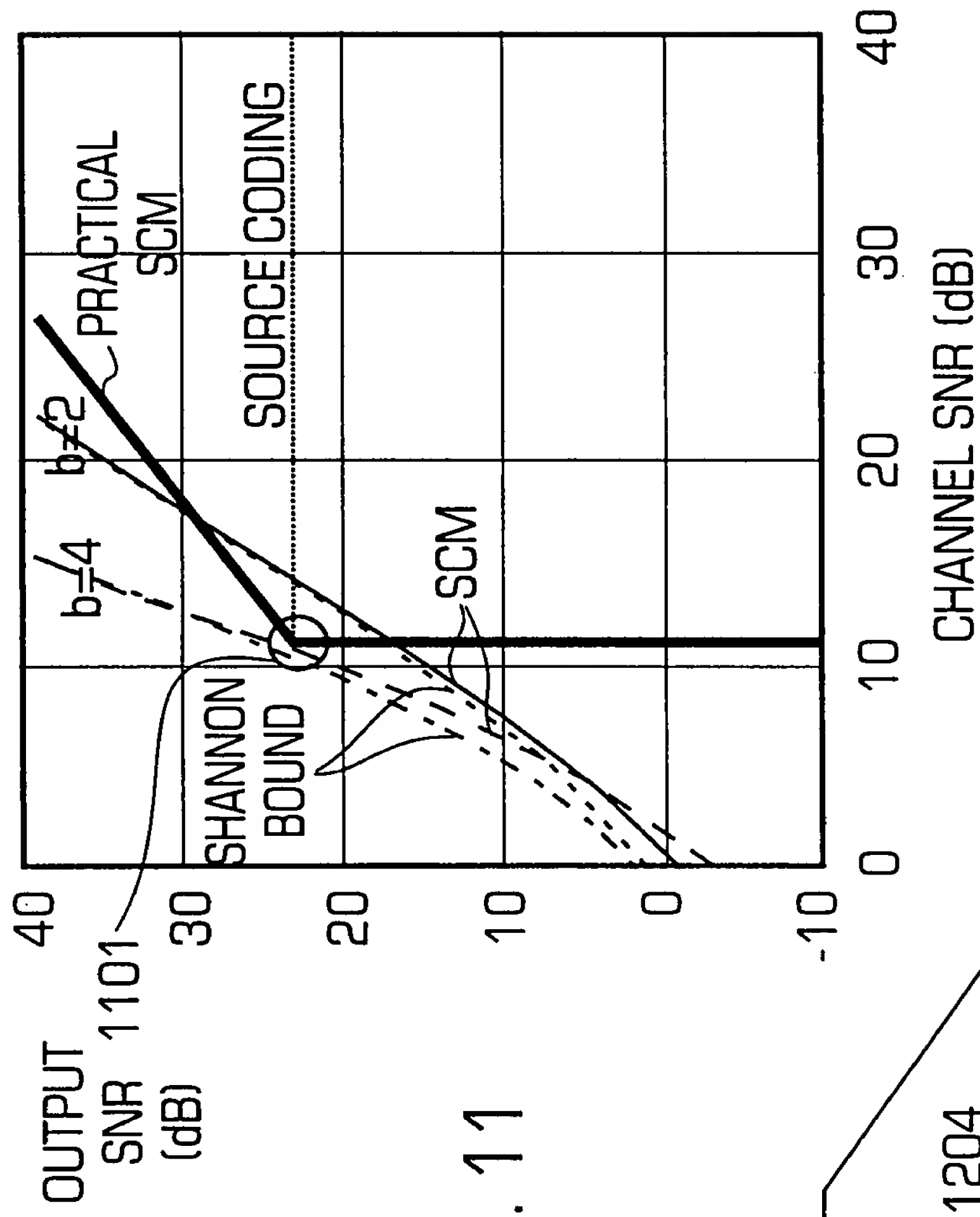


FIG. 11

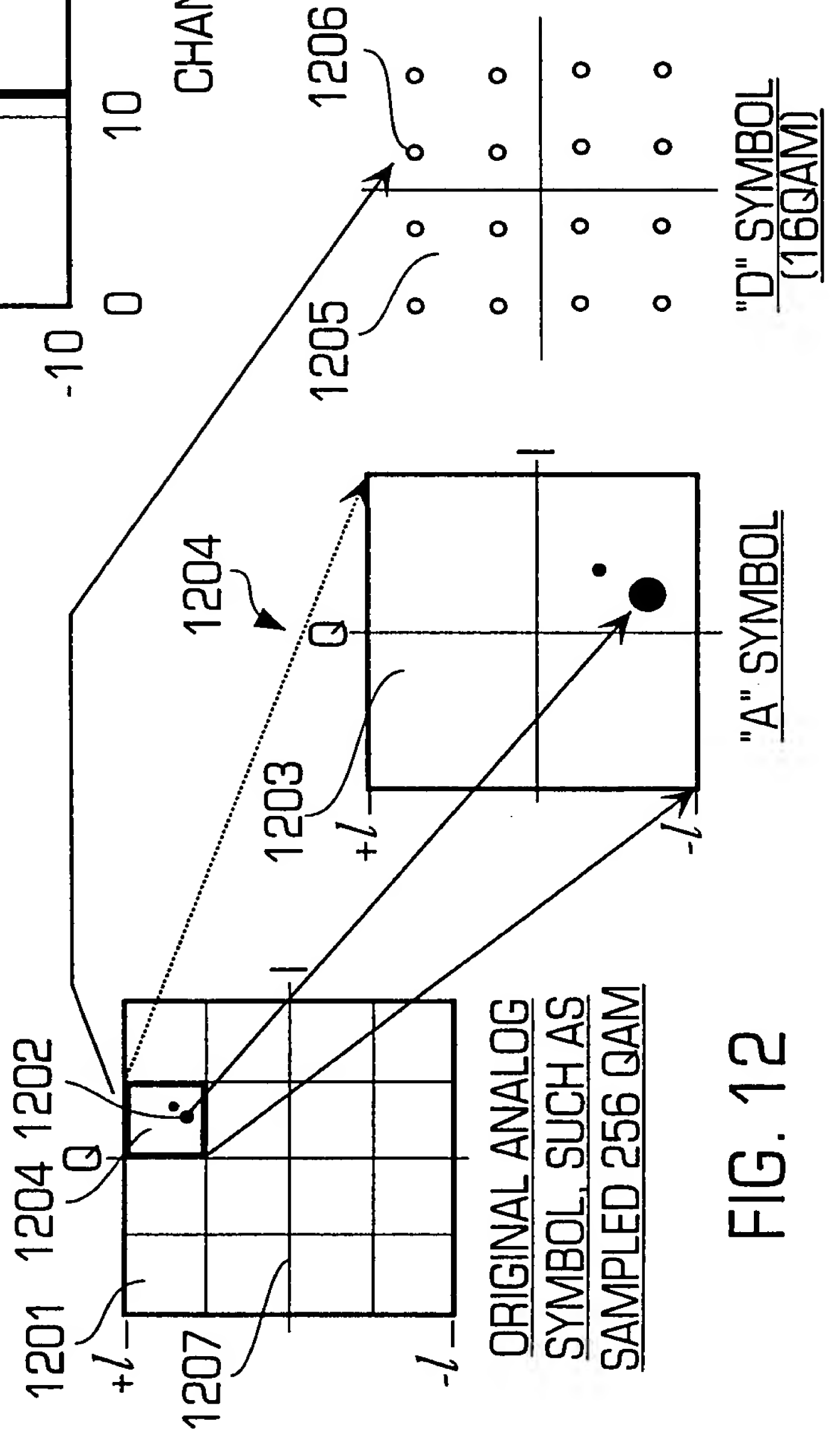


FIG. 12

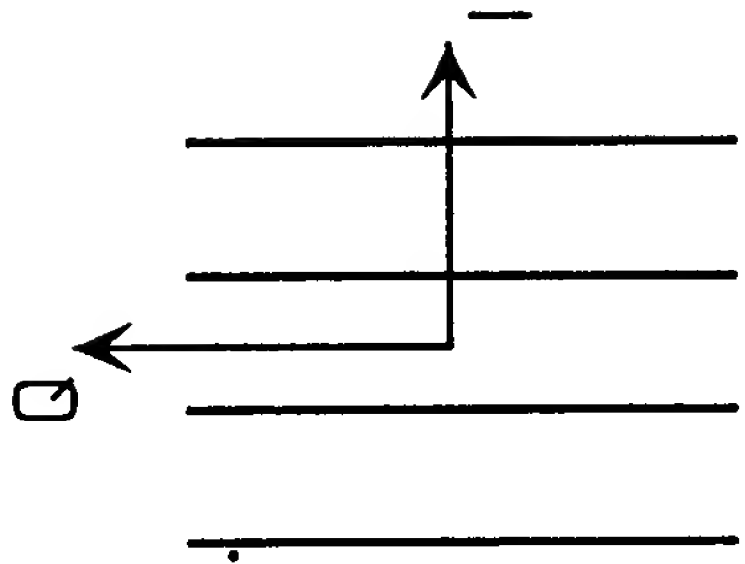


FIG. 13

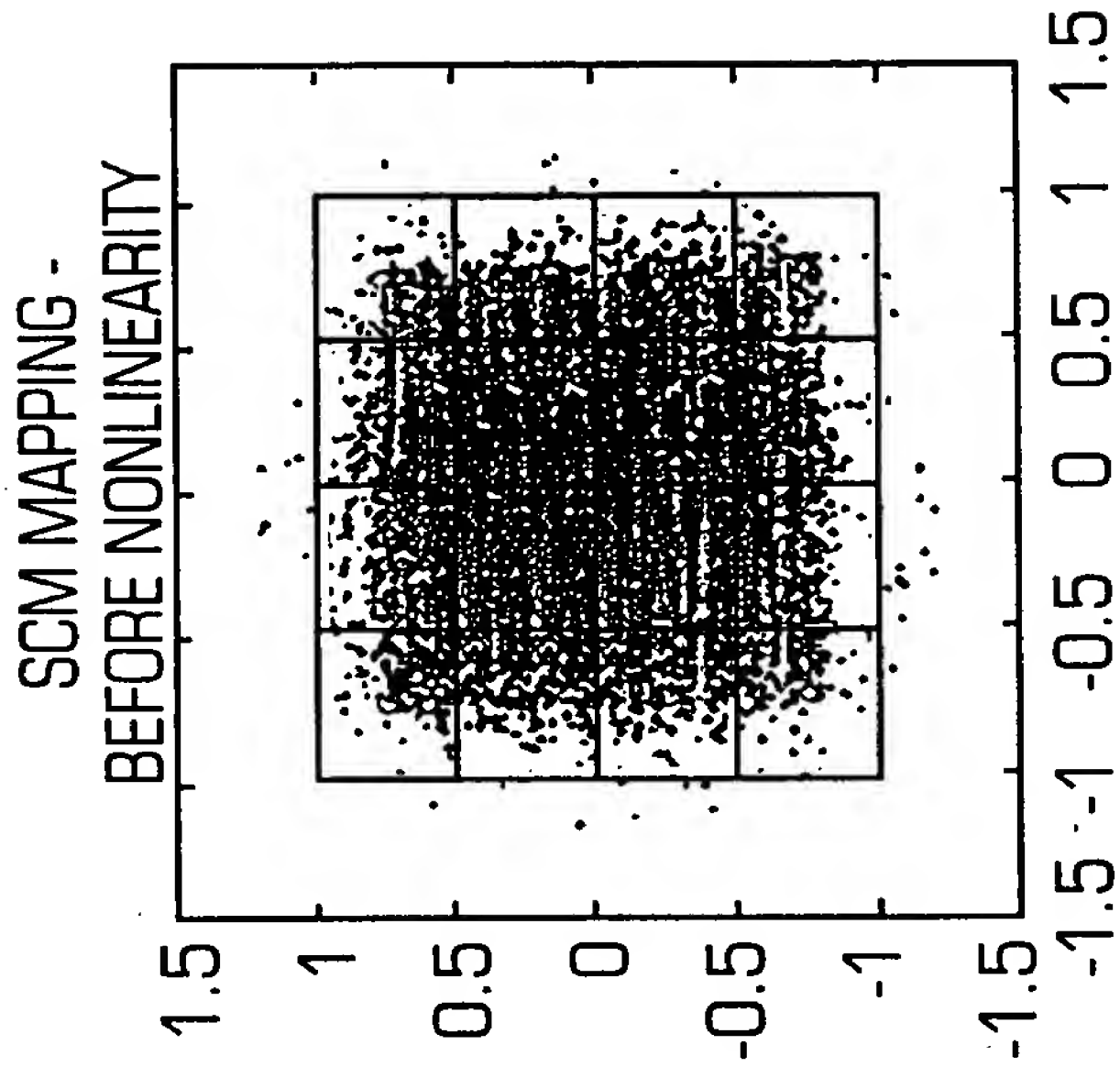


FIG. 17

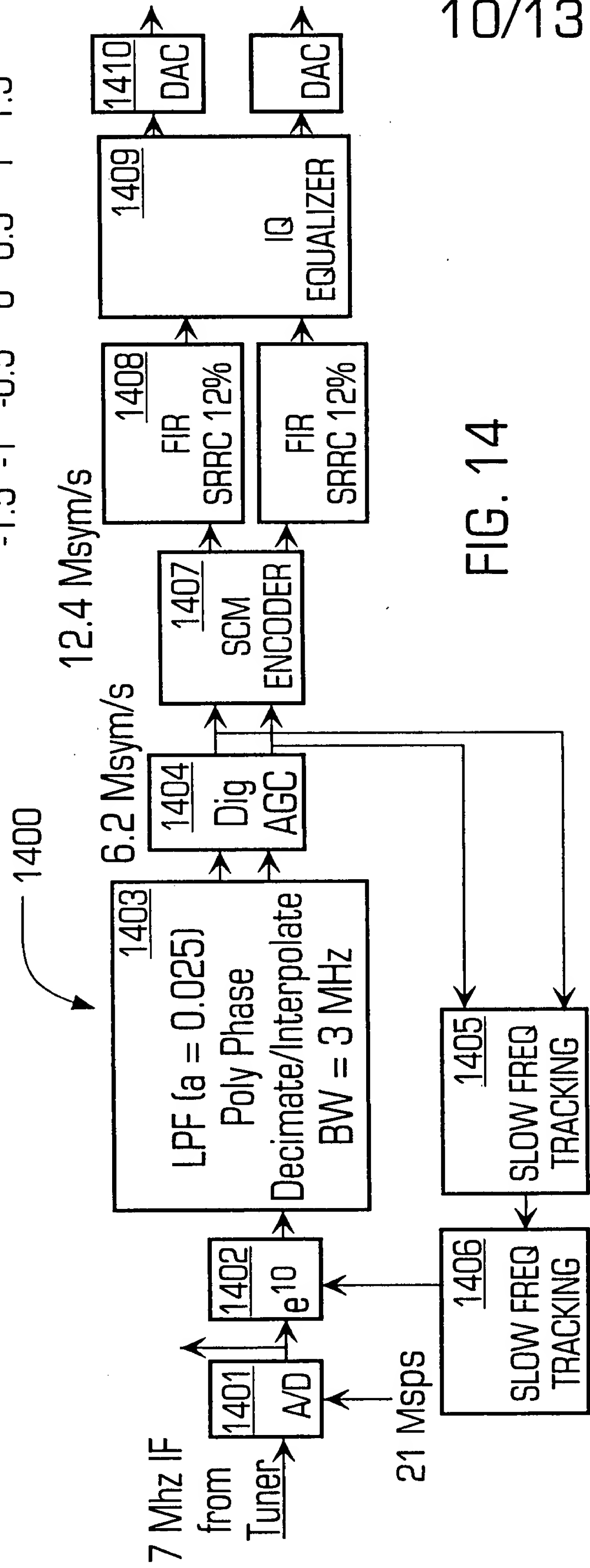


FIG. 14

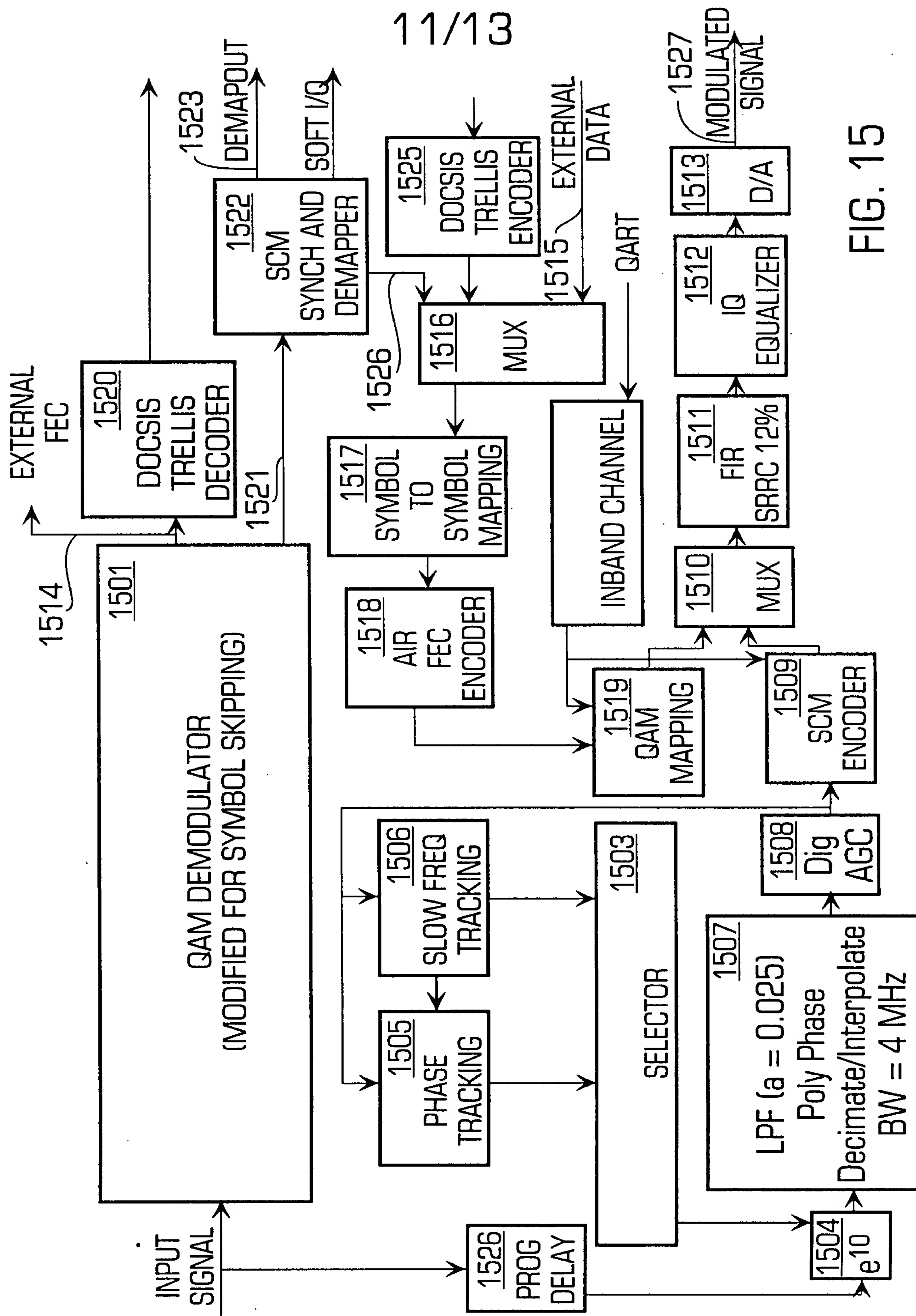


FIG. 15

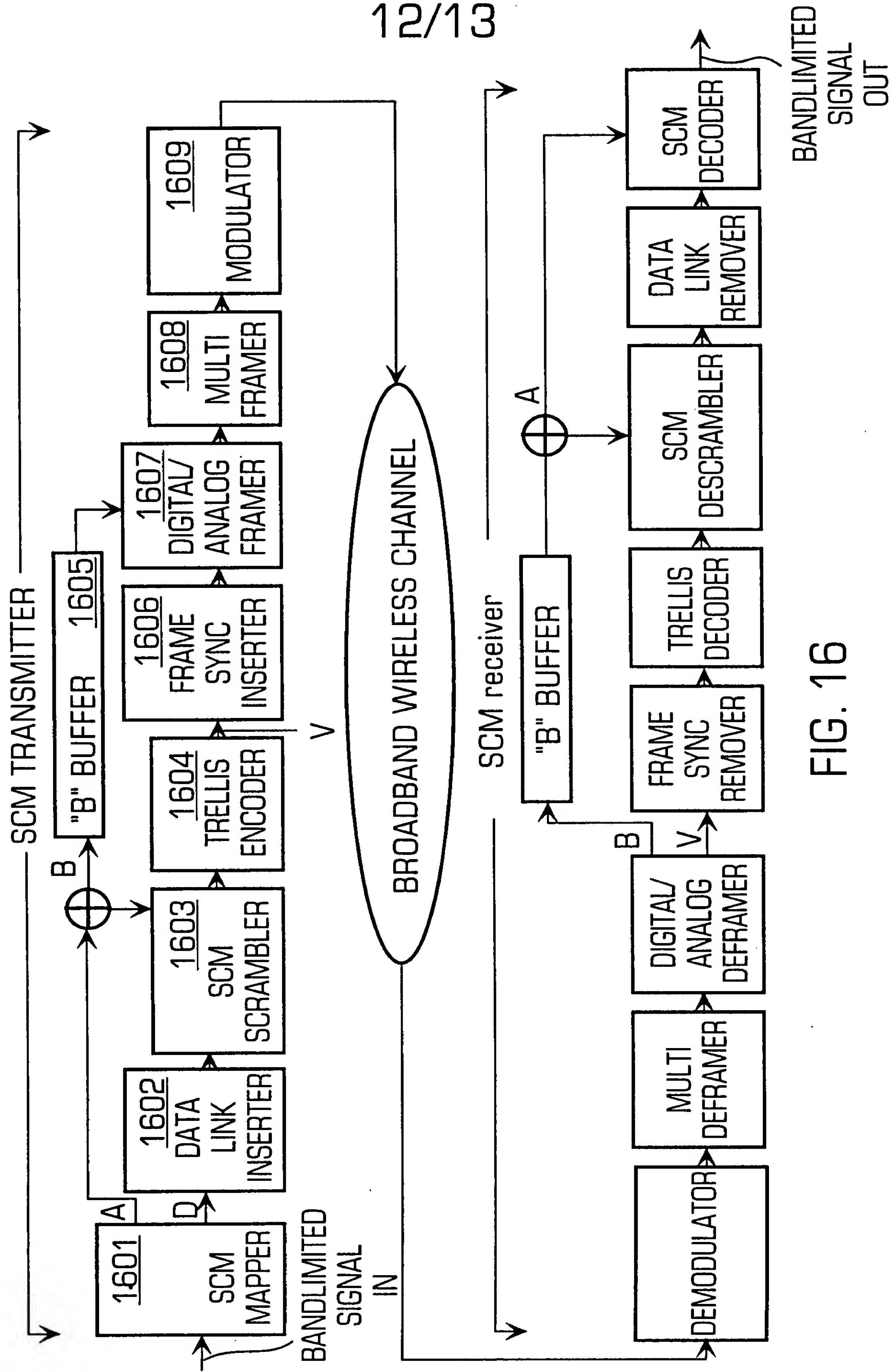


FIG. 16

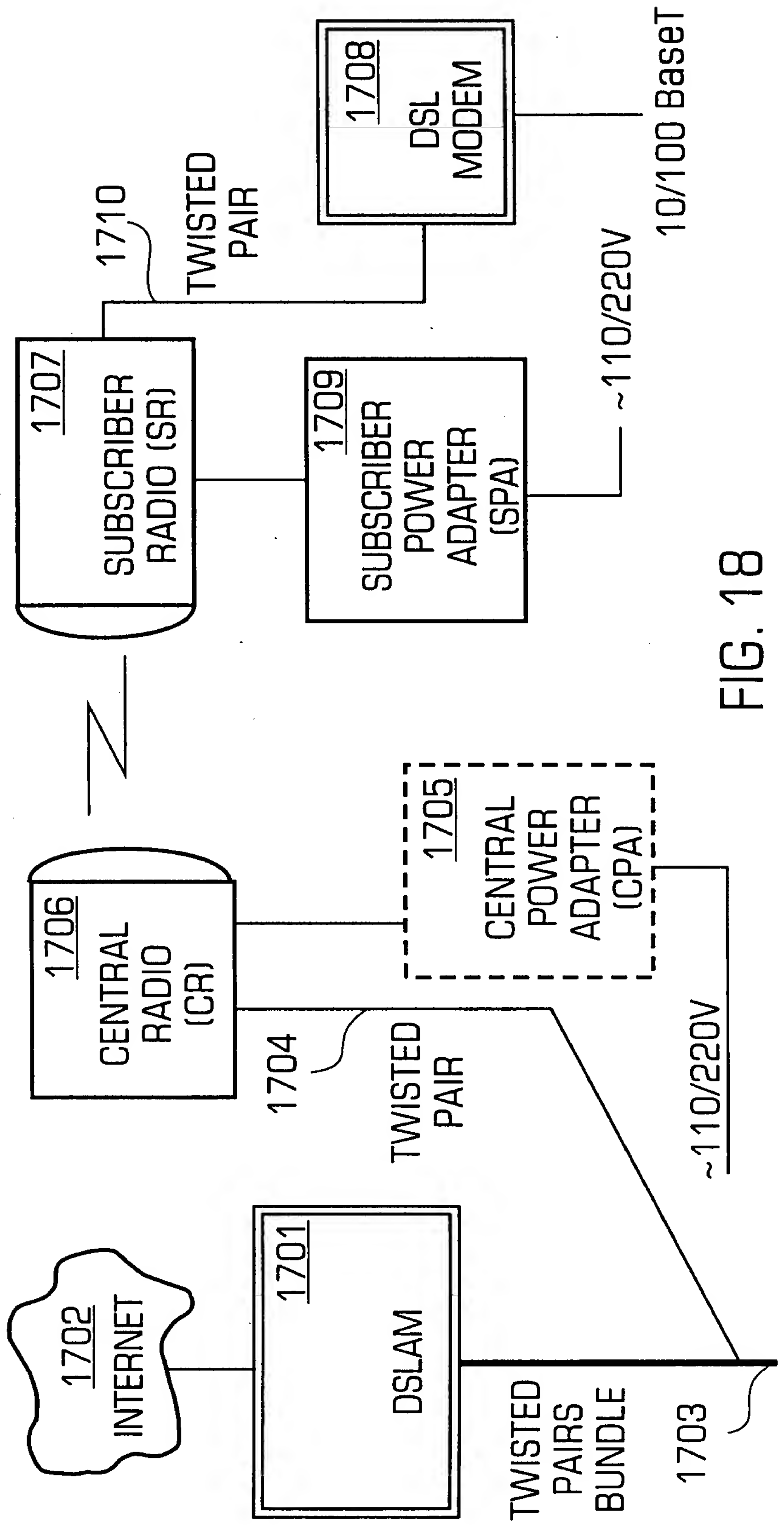


FIG. 18

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8,**Applicant(s): **Bridgewave Communications, Inc.**

Docket No.

**2100259-991110**

Serial No.

**09/528,111**

Filing Date

**March 17, 2000**

Examiner

**Jean B. Corrielus**

Group Art Unit

**2631**

Invention:

**SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS**

I hereby certify that this Transmtl Form; Submission of Formal Dwgs; 13 Drawings; Cert. of Mail; Postcard;  
(Identify type of correspondence)

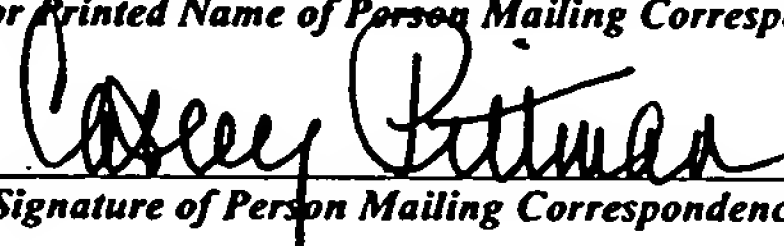
is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 9, 2003

(Date)

Cathy Pittman

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

**Note: Each paper must have its own certificate of mailing.**



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	ELIEZER PASTERNAK	BRIDGE-1110	4152

26379 7590 07/18/2003

GRAY CARY WARE & FREIDENRICH LLP  
2000 UNIVERSITY AVENUE  
E. PALO ALTO, CA 94303-2248

EXAMINER

CORRIELUS, JEAN B

ART UNIT	PAPER NUMBER
----------	--------------

2631

DATE MAILED: 07/18/2003

18

Please find below and/or attached an Office communication concerning this application or proceeding.

PATENT DOCKET	
DATE:	July 21, 2003
ACTION:	F. Drawings Due
DUE:	16 August 2003
DEAD:	

RECEIVED

JUL 21 2003

GRAY CARY  
WARE & FREIDENRICH

**Notice of Allowability**  
**(SUPPLEMENTAL)**

Application No.

09/528,111

Examiner

Jean B Corrielus

Applicant(s)

PASTERNAK ET AL.

Art Unit

2631

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/14/03.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☐ The drawings filed on \_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
  - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☒ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 4 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. _____. |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____.              | 6 <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance            |
|  | 9 <input type="checkbox"/> Other  |

*Jm Corrielus*  
**JEAN B. CORRIELUS**  
**PRIMARY EXAMINER**  
*7/16/03*

## Interview Summary

**Application No.**

09/528,111

**Applicant(s)**

PASTERNAK ET AL.

**Examiner**

Jean B Corrielus

**Art Unit**

2631

All participants (applicant, applicant's representative, PTO personnel):

(1) Jean B Corrielus.

(3)\_\_\_\_\_.

(2) Timothy Lohse.

(4)\_\_\_\_\_.

Date of Interview: 15 July 2003.

Type: a) ☒ Telephonic b) ☐ Video Conference

c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☐ No.

If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: \_\_\_\_\_.

Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's rep stated that the name "Eliezer" as appeared in the oath declaration is the correct spelling of the inventor's name. As a result, a request for a new oath declaration is vacated.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

i) ☒ It is not necessary for applicant to provide a separate record of the substance of the interview(if box is checked).

Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

\_\_\_\_\_  
Examiner's signature, if required

## **Summary of Record of Interview Requirements**

### **Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record**

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### **Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews**

#### **Paragraph (b)**

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### **37 CFR §1.2 Business to be transacted in writing.**

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case unless both applicant and examiner agree that the examiner will record same. Where the examiner agrees to record the substance of the interview, or when it is adequately recorded on the Form or in an attachment to the Form, the examiner should check the appropriate box at the bottom of the Form which informs the applicant that the submission of a separate record of the substance of the interview as a supplement to the Form is not required.

It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

#### **Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

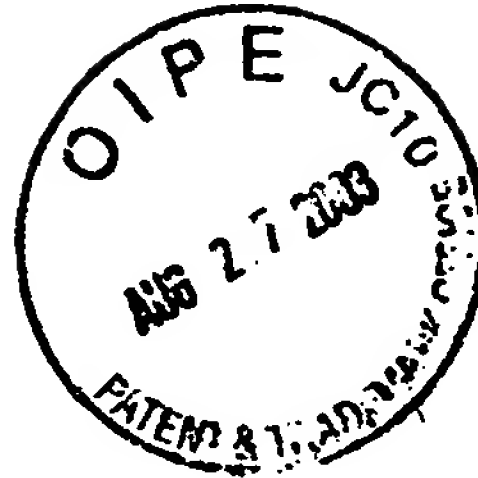
Exhibit 4

Commissioner for Patents  
Mail Stop Issue Fee  
P.O. Box 1450  
Alexandria, VA 22313-1450

Mailing Date: August 18, 2003  
Attorney Docket No. 2100259-991110 U.S. Serial No.: 09/528,111  
Filing Date: March 17, 2000  
Title: Signal Communications System and Method for Noisy Links

3,111

nks



Enclosed are:

- 1) Transmittal Form (1 pg.);
- 2) Issue Fee Transmittal (1 pg.);
- 3) Check # 548787 for \$680.00;
- 4) Certificate of First Class Mailing (1 pg); and
- 5) Return Postcard

TWL/12074 - Bridgewave -  
2100259-991110

-PTO/SB/21 (08-00)

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	09/528,111	
	<b>Filing Date</b>	March 17, 2000	
	<b>First Named Inventor</b>	Eliezer Pasternak,, et al.	
	<b>Group Art Unit</b>	2631	
	<b>Examiner Name</b>	J. Corrielus	
<b>Total Number of Pages in This Submission</b>		<b>Attorney Docket Number</b>	2100259-991110

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> Issue Fee Transmittal; Check # <u>54281</u> for \$680.00; Cert. of First Class Mailing; Return postcard.
Remarks		

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	26379
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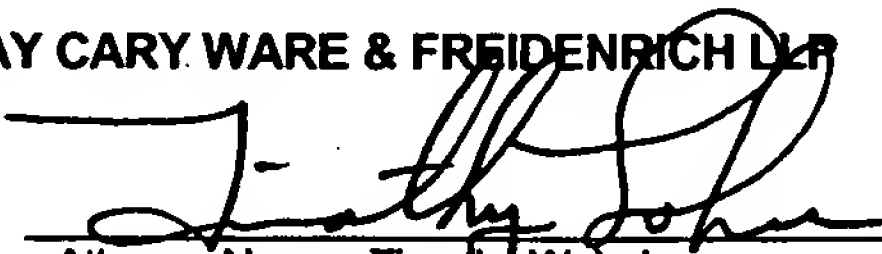
The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1896. A duplicate copy of this sheet is enclosed.

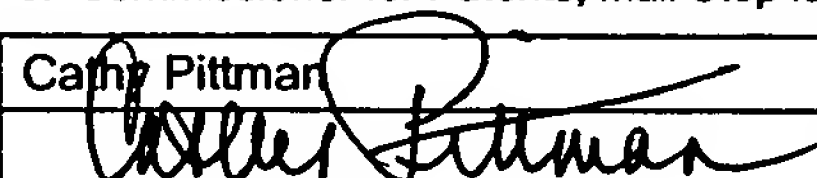
Respectfully submitted,

GRAY CARY WARE &amp; FREIDENRICH LLP

Dated: August 18, 2003

By:

  
Attorney Name: Timothy W. Lohse  
Reg. No. 35,255  
Attorneys for Applicant(s)  
2000 University Avenue  
East Palo Alto, California 94303  
650/833-2055

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Issue Fee, P.O. Box 1450, Alexandria, VA 22313-1450			
Typed or printed name	Cathy Pittman		
Signature		Date	August 18, 2003

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE  
Commissioner for Patents  
Alexandria, Virginia 22313-1450  
**Fax** (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

26379 7590 05/19/2003

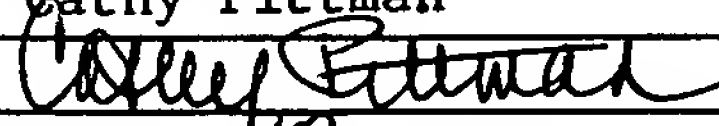
GARY CARY WARE & FREIDENRICH LLP

~~XXXXXX EMBARCADERO ROAD~~ 2000 University Avenue  
~~PALO ALTO, CA 94303-3349~~ East Palo Alto, CA 94303  
~~XXXXXXXXXXXXXXXXXXXX~~

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## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Gathy Pittman	(Depositor's name)
	(Signature)
August 18, 2003	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	Eli Pasternak	BRIDGE-1110	4152

TITLE OF INVENTION: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	08/19/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
CORRIELUS, JEAN B	2631	375-298000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

GRAY CARY WARE &  
1 FREIDENRICH LLP

2 \_\_\_\_\_

3 \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

BRIDGEWAVE COMMUNICATIONS, INC.

SANTA CLARA, CALIFORNIA

Please check the appropriate assignee category or categories (will not be printed on the patent)

☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☐ Publication Fee

☒ Advance Order - # of Copies 10

4b. Payment of Fee(s):

☒ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 07-1896 (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

GRAY CARY WARE & FREIDENRICH LLP

(Authorized Signature)

(Date)

By:  August 18, 2003

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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GRAY CARY WARE &amp; FREIDENRICH

401 B STREET, SUITE 2000 SAN DIEGO, CA 92101 - CHECK NO.:

542787

INVOICE	DATE	AMOUNT	
08/18/03 12074-1	08-18-03	680.00	Cathy Pittman Ext 1548
VENDOR ID: copt			

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND ON WHITE PAPER

## GRAY CARY WARE &amp; FREIDENRICH

401 B STREET, SUITE 2000  
SAN DIEGO, CA 92101-4240COMERICA - Controlled Disbs  
Comerica Bank & Trust, NA

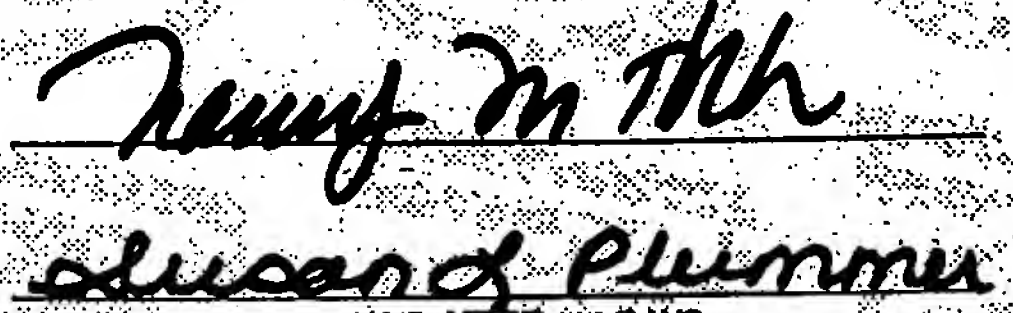
74-478/724

CHECK NO. 542787

DATE 08/18/03

AMOUNT OF CHECK  
\*\*\*\*\* 680.00

SIX HUNDRED EIGHTY AND 00/100 U.S. Dollar

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TO THE  
ORDER OFCOMMISSIONER FOR PATENTS  
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ALEXANDRIA, VA 22313-1450GRAY CARY WARE & FREIDENRICH  
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THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Eliezer Pasternack and  
Ladd El Wardani

Serial No. 09/528,111

Group Art Unit: 2631

Filed: March 17, 2000

Examiner: J. Corrielus

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY  
LINKS

Date of Deposit August 18, 2003

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents; Mail Stop Issue Fee, P.O. Box 1450, Alexandria, VA 22313-1450

  
Cathy Pittman

\* \* \*

CERTIFICATE OF MAILING

COMMISSIONER OF PATENTS

Mail Stop Issue Fee

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 CFR 1.56(a) are:

- [1] Transmittal Form;
- [1] Issue Fee Transmittal;
- [1] Check # 542787 for \$680.00;
- [1] Certificate of First Class Mailing; and
- [1] Return Postcard



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,111	03/17/2000	ELIEZER PASTERNAK	BRIDGE-1110	4152
26379	7590	01/09/2004	EXAMINER	
GRAY CARY WARE & FREIDENRICH LLP 2000 UNIVERSITY AVENUE E. PALO ALTO, CA 94303-2248			CORRIELUS, JEAN B	
			ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 01/09/2004

P #20

Please find below and/or attached an Office communication concerning this application or proceeding.

PATENT DOCKET	
DATE:	<u>Jan 26 2004</u>
ACTION:	<u>Pat to Review</u>
DUE:	<u>0</u>
DEAD:	<u></u>

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JAN 26 2004

GRAY CARY  
WARE & FREIDENRICH



UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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09/528,111

EXAMINER
----------

ART UNIT	PAPER NUMBER
----------	--------------

ABANDONMENT  
CONTACT PERSON IS:  
TOM HAWKINS  
305-8380

DATE MAILED: 

NOTICE OF ABANDONMENT

This application is abandoned in view of:

p #20

- ☐ Applicant's failure to timely file a proper reply to the Office letter mailed on \_\_\_\_\_.
- ☐ A reply (with Certificate of Mailing or Transmission of \_\_\_\_\_) was received on \_\_\_\_\_ which is after the expiration of the period for reply (including a total extension of time of \_\_\_\_\_ month(s)) which expired on \_\_\_\_\_.
- ☐ A proposed reply was received on \_\_\_\_\_, but it does not constitute a proper reply under 37 CFR 1.113 to the final rejection.  
(A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
- ☐ A reply was received on \_\_\_\_\_, but it does not constitute a proper reply, or a *bona fide* attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in the last box below).
- ☐ No reply has been received.
- ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
- ☐ The issue fee and publication fee, if applicable, was received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85)(or Notice of Publication Fee Due).
- ☐ The submitted fee of \$ \_\_\_\_\_ is insufficient. A balance of \$ \_\_\_\_\_ is due.  
The issue fee by 37 CFR 1.18 is \$ \_\_\_\_\_. The publication fee, if required, by 37 CFR 1.18(d) is \$ \_\_\_\_\_.
- ☐ The issue fee and publication fee, if applicable, have not been received.
- ☒ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTOL-37).
- ☐ Proposed corrected drawings were received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the period for reply.
- ☒ No corrected drawings have been received.
- ☐ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all the applicants.
- ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon filing of a continuing application.
- ☐ The decision by the Board of Patent Appeals and Interferences rendered on \_\_\_\_\_ and because the period for seeking court review of the decision has expired and there are no allowed claims.
- ☐ The reason(s) below: \_\_\_\_\_

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

**Respond to the Notice of Abandonment by one of the following:**

**Petition To Withdraw Holding of Abandonment (See MPEP 711.03(c) I) and 37 CFR § 1.181) No fee required**

Where an applicant contends that the application is not in fact abandoned (e.g., there is disagreement as to the sufficiency of the reply, or as to controlling dates), a petition under 37 CFR § 1.181(a) requesting withdrawal of the holding of abandonment is the appropriate course of action. Any petition under 37 CFR § 1.181, to withdraw the holding of abandonment not filed within 2 months of the mail date of a Notice of Abandonment may be dismissed as untimely under 37 CFR § 1.181(f).

In order for a petition to be granted, the evidence must be sufficient according to one of the following standards:

- 37 CFR § 1.8(b) Certificate of Mailing
- 37 CFR § 1.10 "Express Mail" mailing
- MPEP 503 Postcard Receipt as Prima Facie Evidence

~~Petition To Withdraw Holding Of Abandonment should be addressed as follows:~~

~~By mail: Commissioner For Patents, P.O. Box 1450, Mail Stop Issue Fee, Alexandria, VA 22313-1450~~

~~By facsimile: 703-305-8755 or 703-305-4372~~

**Petition To Withdraw Holding Of Abandonment Based On Failure To Receive Office Action (See MPEP 711.03(c) II). No fee required**

Where an applicant contends that the original Notice of Allowance and Issue Fee Due was never received. If adequately supported, the Office may grant the petition and remail the Office action. The showing required establishing non-receipt of an Office communication must include a statement from the practitioner stating that the Office communication was not received and attesting to the fact that a search of the file jacket and docket records indicates that the Office communication was not received. A copy of the docket record where the nonreceived Office would have been entered had it been received and docketed must be attached to and referenced in practitioner's statement.

Petition should be addressed to the Technology Center handling the application as follows:

By mail: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450  
(Mark attention of a particular office or individual)

By facsimile: Technology Center numbers posted at <http://www.uspto.gov/september1/faxnotice.htm>

**Petition To Revive An Abandoned Application (See MPEP 711.03(c) III)**

Where there is no dispute as to whether an application is abandoned (e.g. the applicant's contentions merely involve the cause of abandonment) a petition under 37 CFR § 1.137 (a) unavoidable or (b) unintentionally (accompanied by the appropriate petition fee) is necessary to revive the abandoned application.

Petitions under 37 CFR § 1.137 should be addressed to the Office of Petitions as follows:

By mail: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450

By hand: Crystal Plaza 4, Rm. 3C23, 2201 Clark Place, Arlington, VA

By facsimile: 703-308-6916

Petition For Revival Of An Application For Patent Abandoned Unavoidably Under 37 CFR § 1.137(a) and Unintentionally Under 37 CFR 1.137(b), forms available at USPTO website – <http://www.uspto.gov>

Note: Abandonment takes place by operation of law for failure to reply to an Office action or timely pay the issue fee, not by operation of the mailing of a Notice of Abandonment.

Exhibit 6

## Auto-Reply Facsimile Transmission



TO:

Fax Sender at 650 833 2001

Fax Information

Date Received:

1/30/2004 6:18:44 PM [Eastern Standard Time]

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**ADVISORY:** This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 306 et seq.

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Cover  
Page

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01/30/2004 13:16 FAX 650 833 2001			GCW&F #6	0001
<b>GRAYCARY. TECHNOLOGY'S LEGAL EDGE®</b>				
<small>3340 Hillview Avenue Palo Alto, CA 94304-1203 www.graycary.com OJ 650-833-2055 FI 650-833-</small>				
<b>FAX TRANSMISSION COVER SHEET</b>			January 30, 2004	
<u>To:</u>		<u>Telephone:</u>	<u>Fax Number:</u>	
U.S. Patent and Trademark Office Mail Stop Issue Fee			1- 703-872-9306	
<u>From:</u> Timothy W. Lohse 650-833-2055		<u>Attorney Docket Number:</u> 2100259-991110		
<u>Re:</u> U.S. Patent Application: Serial No.: 09/528,111 Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINK		<u>Filing Date:</u> March 17, 2000		
Pages: - <u>20</u> - (Including this form) Originals: <input type="checkbox"/> will be mailed <input checked="" type="checkbox"/> will not be mailed				
If there is a problem with this transmission, please call (650) 833-1548 Fax Operator/Ext.				
<b>Message:</b>				
Application S/N : 09/528,111 Filed: March 17, 2000 Examiner: J. Cornelius Art Unit: 2631				
Attached are:				
1. Transmittal Form (1 pg); 2. Petition to Withdraw Abandonment w/Attachment A (17 pgs); 3. Certificate of Facsimile Transmission;				
<b>CONFIDENTIALITY NOTICE</b>				
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<small>(Form Rev. 8/3/00)</small>				
<small>Gray Cary/EM7158870.1</small>				
<small>PAGE 1/22 * RCVD AT 1/30/2004 6:18:44 PM [Eastern Standard Time] * SVR:USPTO-EFXXF-1/0 * DNS:1723306 * CSID:650 833 2001 * DURATION (min:ss):03:44</small>				

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**FAX TRANSMISSION COVER SHEET**

January 30, 2004

To:Telephone:Fax Number:

U.S. Patent and Trademark Office  
Mail Stop Issue Fee

1- 703-872-9306

From: Timothy W. Lohse  
650-833-2055

Attorney Docket Number: 2100259-991110

Re: U.S. Patent Application:

Serial No.: 09/528,111

Filing Date: March 17, 2000

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINK

Pages: - 20 - (including this form) Originals: ☐ will be mailed ☒ will not be mailed

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Fax Operator/Ext.

**Message:**

Application S/N : 09/528,111  
Filed: March 17, 2000  
Examiner: J. Corrielus  
Art Unit: 2631

**Attached are:**

1. Transmittal Form (1 pg);
2. Petition to Withdraw Abandonment w/Attachment A (17 pgs);
3. Certificate of Facsimile Transmission;

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F] 650-833-

**FAX TRANSMISSION COVER SHEET**

**January 30, 2004**

To:

Telephone:

Fax Number:

**U.S. Patent and Trademark Office  
Mail Stop Issue Fee**

**1- 703-872-9306**

**From: Timothy W. Lohse  
650-833-2055**

**Attorney Docket Number: 2100259-991110**

**Re: U.S. Patent Application:**

**Serial No.: 09/528,111**

**Filing Date: March 17, 2000**

**Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINK**

**Pages: - 20 - (including this form) Originals: ☐ will be mailed ☒ will not be mailed**

**If there is a problem with this transmission, please call (650) 833-1548  
Fax Operator/Ext.**

**Message:**

**Application S/N : 09/528,111  
Filed: March 17, 2000  
Examiner: J. Corrielus  
Art Unit: 2631**

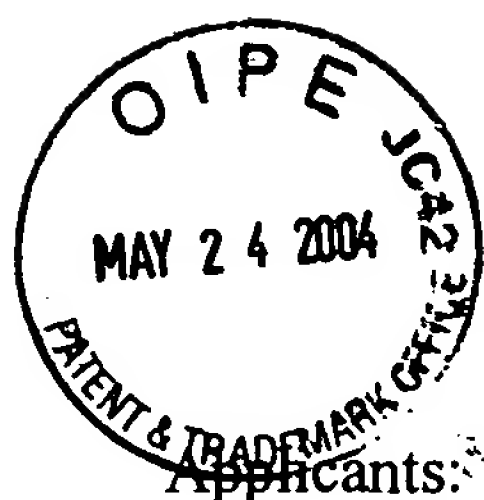
**Attached are:**

- 1. Transmittal Form (1 pg);**
- 2. Petition to Withdraw Abandonment w/Attachment A (17 pgs);**
- 3. Certificate of Facsimile Transmission;**

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(Form Rev. 6/5/00)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Eliezer Pasternak

Serial No.: 09/528,111

Group Art Unit: 2631

Filed: March 17, 2000

Examiner: Unknown

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office on the date indicated below at (703) 872-9306 addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the following date:

Dated: January 30, 2004

  
Cathy Pittman

\* \* \*

PETITION TO WITHDRAW ABANDONMENT PER 37 CFR §1.181

Mail Stop PETITION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Technology Center 2600

Dear Commissioner:

Pursuant to 37 CFR 1.181, Applicant contends that the above-identified patent application is not abandoned and requests that the Notice of Abandonment mailed on January 9, 2004 be withdrawn. This petition is filed within two months of the mailing date of the Notice of Abandonment and is therefore timely filed and no petition fee is required.

Enclosed herewith is the evidence that proves that a withdrawal of the Notice of Abandonment is the appropriate course of action. The Patent Office issued a Notice of Allowability on August 19, 2003, in response to Applicant's amendment filed on April 9, 2003.

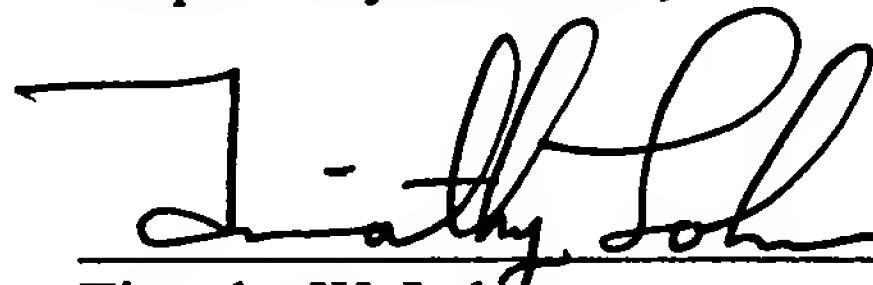
In the Notice of Allowability, the Examiner indicated that (1) the drawings changes contained in the April 9 response were approved; (2) changes should be made pursuant to the Notice of Draftsperson's Patent Drawing Review; and (3) changes pursuant to the Examiner's Amendment submitted with the Notice of Allowability. Applicant and the Examiner had spoken via telephone on May 14, 2003 about the changes in the Examiner's amendment.

On June 9, 2003, Applicant submitted formal drawings that made all of the changes noted in the later-received Notice of Allowability based on the telephone conference of May 14, 2003. The stamped postcard indicating receipt of these formal drawings (and a copy of these formal drawings) is enclosed herewith as evidence that the U.S. Patent and Trademark Office received the formal drawings on June 23, 2003. Therefore, prior to paying the issue fee, Applicant timely submitted corrected drawings (the formal drawings in lieu of corrected drawings) and the Notice of Abandonment should be withdrawn.

If the Commissioner so wishes, s/he is invited to call the number listed below. Any fee due for this Petition may be charged to Deposit Account No. 07-1896.

Dated: January 30, 2004

Respectfully submitted,



Timothy W. Lohse  
Reg. No. 35,255  
Attorney for Applicant

GRAY CARY WARE & FREIDENRICH LLP  
2000 University Avenue  
East Palo Alto, CA 94303-2248  
(650) 833-2000

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Mailing Date: June 9, 2003  
Attorney Docket No. 2100259-991110 U.S. Serial No.: 09/528,111  
Filing Date: March 17, 2000  
Title: Signal Communications System and Method for Noisy Links

Enclosed are:

- 1) Transmittal Form (1 pg.);
- 2) Transmittal of Formal Drawings (1 pg.);
- 3) Thirteen sheets Formal Drawings (13 pg.);
- 4) Certificate of First Class Mailing (1 pg); and
- 5) Return Postcard

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2100259-991110



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ATTACHMENT "A"



<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/528,111
	Filing Date	March 17, 2000
	First Named Inventor	Eliezer Pasternak
	Group Art Unit	2631
	Examiner Name	Jean B. Corrielus
Total Number of Pages in This Submission	Attorney Docket Number	2100259-991110

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input checked="" type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Submission of Formal Dwgs (1pg); Thirteen (13) sheets Drawings; Cert. of First Class Mail (1p); Return postcard.
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Gray Cary Ware & Freidenrich Timothy W. Lohse
Signature	
Date	June 9, 2003

CERTIFICATE OF MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name	Cathy Pistorian	
Signature		Date
		June 9, 2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Eliezer Pasternak

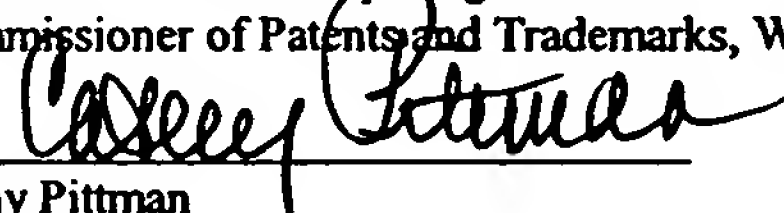
Serial No.: 09/528,111

Examiner: Jean B. Patel

Group Art Unit: 2631

Filed: March 17, 2000

Title: SIGNAL COMMUNICATIONS SYSTEM AND METHOD FOR NOISY LINKS

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as FIRST CLASS MAIL in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on:  
  
Cathy Pittman  
June 9, 2003  
Date

**\*\*\*TRANSMITTAL OF FORMAL DRAWINGS**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

MAY 27 2004

Technology Center 2600

Sir/Madam:

Transmitted herewith are thirteen (13) sheets of formal drawings relative to the above-identified application.

Please address all communications regarding this application to:

Timothy W. Lohse  
Gray Cary Ware & Freidenrich LLP  
1755 Embarcadero Road  
Palo Alto, California 94303-3340

Please direct all telephone calls to Timothy W. Lohse at 650/320-7426.

Respectfully submitted,

**GRAY CARY WARE FREIDENRICH LLP**



Timothy W. Lohse  
(Reg. No.35,255)  
Attorneys for Applicants

Dated: June 9, 2003

**GRAY CARY WARE & FREIDENRICH LLP**  
1755 Embarcadero Road  
Palo Alto, CA 94304-1203  
Tel: 650/320-7536  
Fax: 650/320-7401

1/13

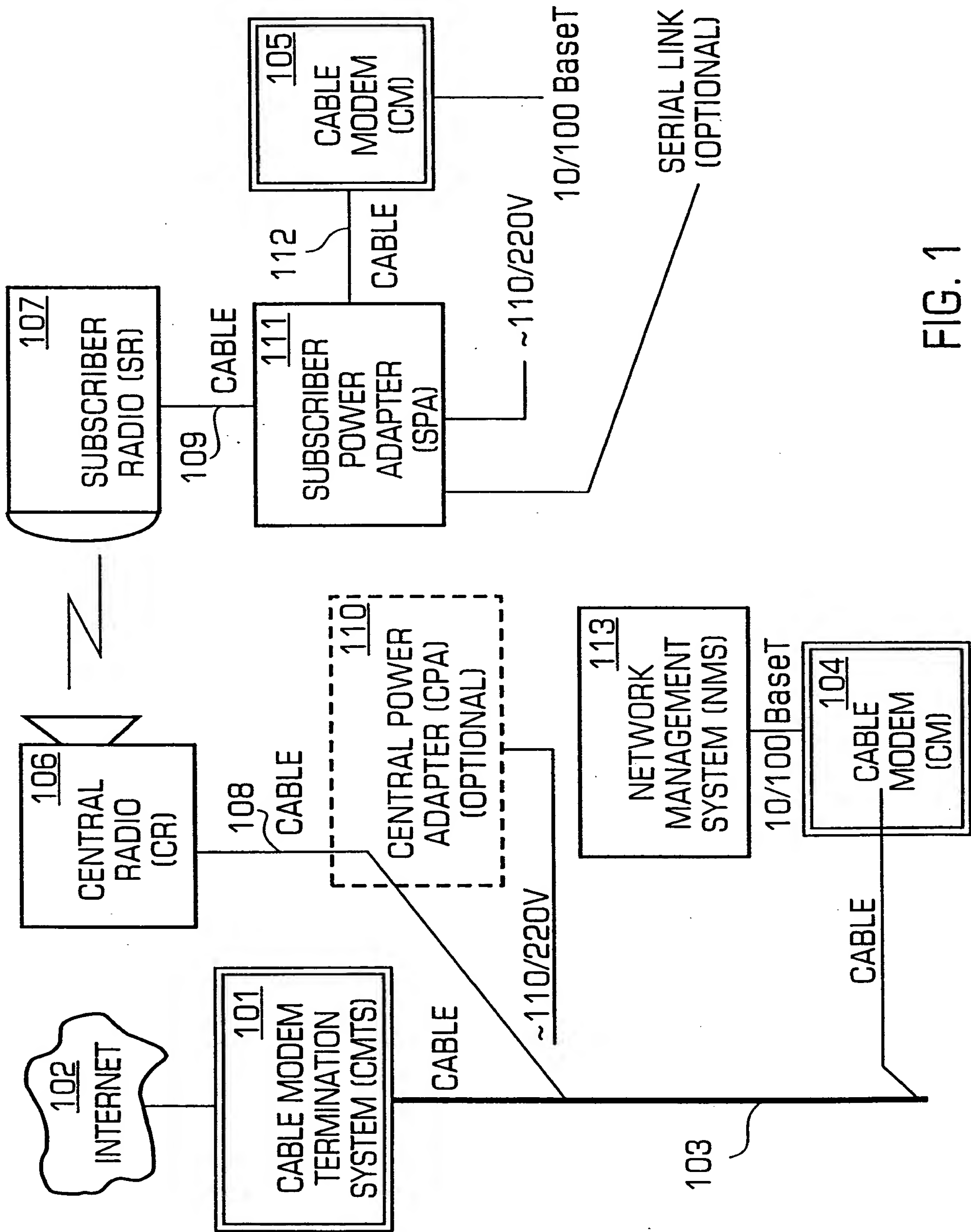


FIG. 1

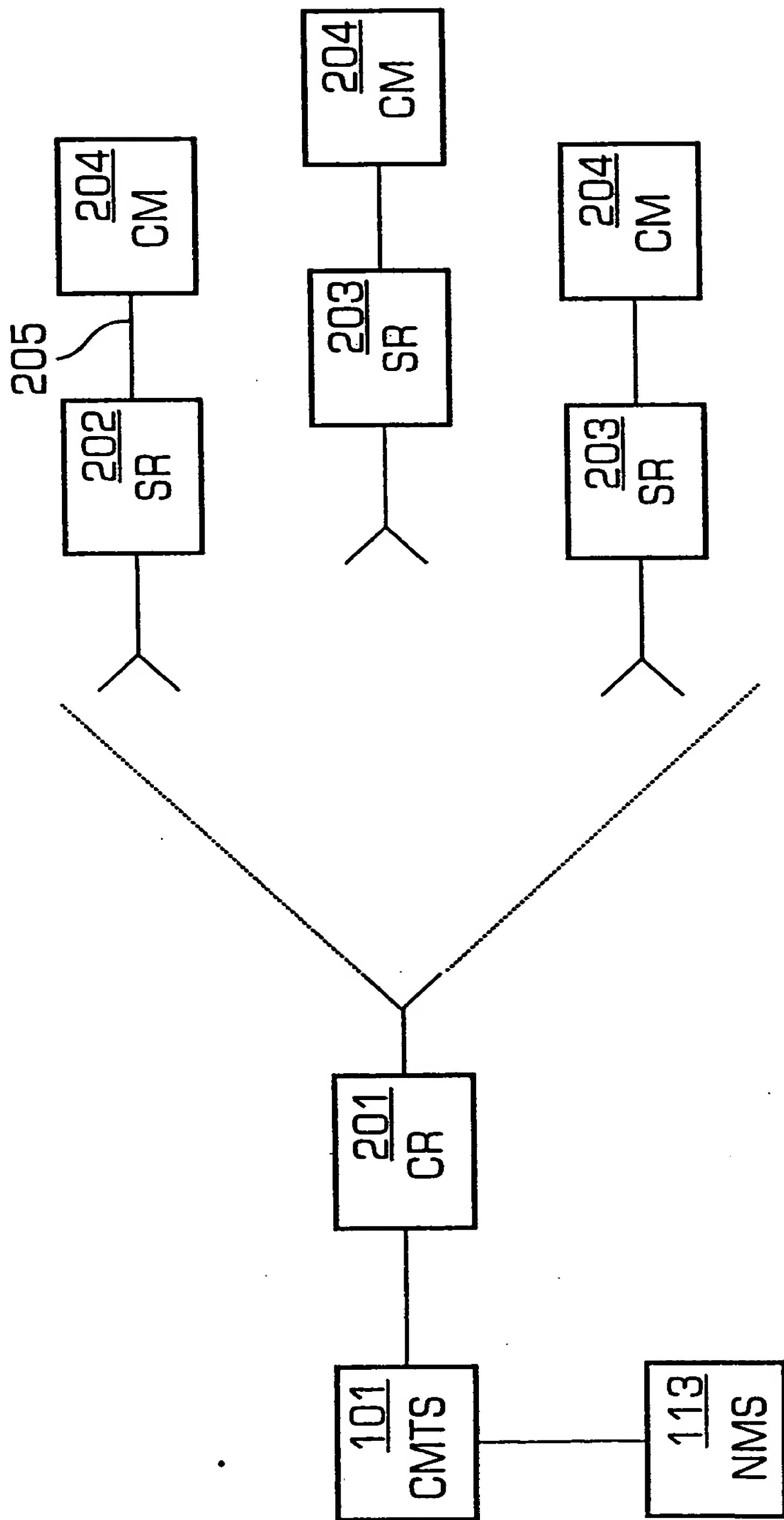


FIG. 2

3/13

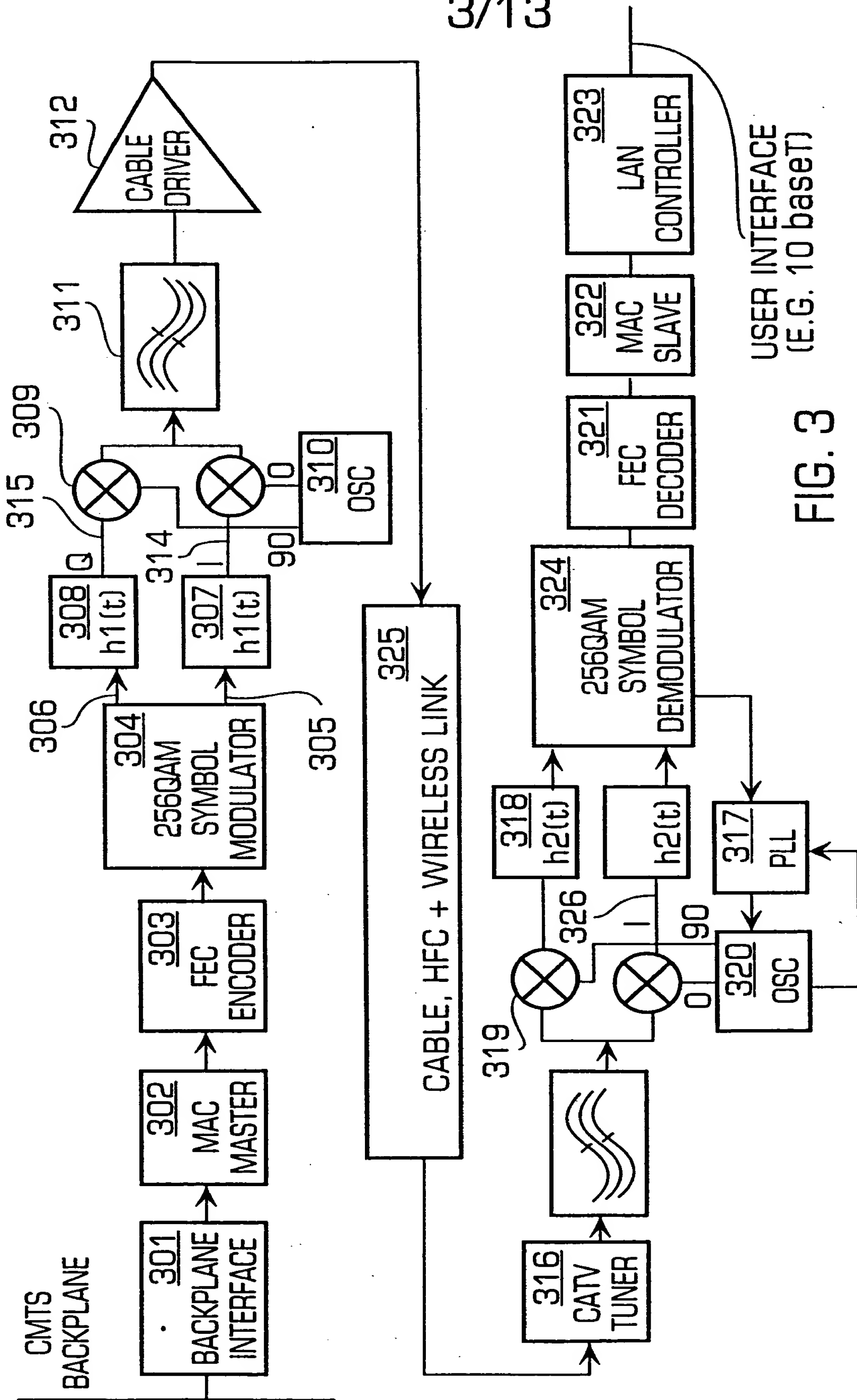
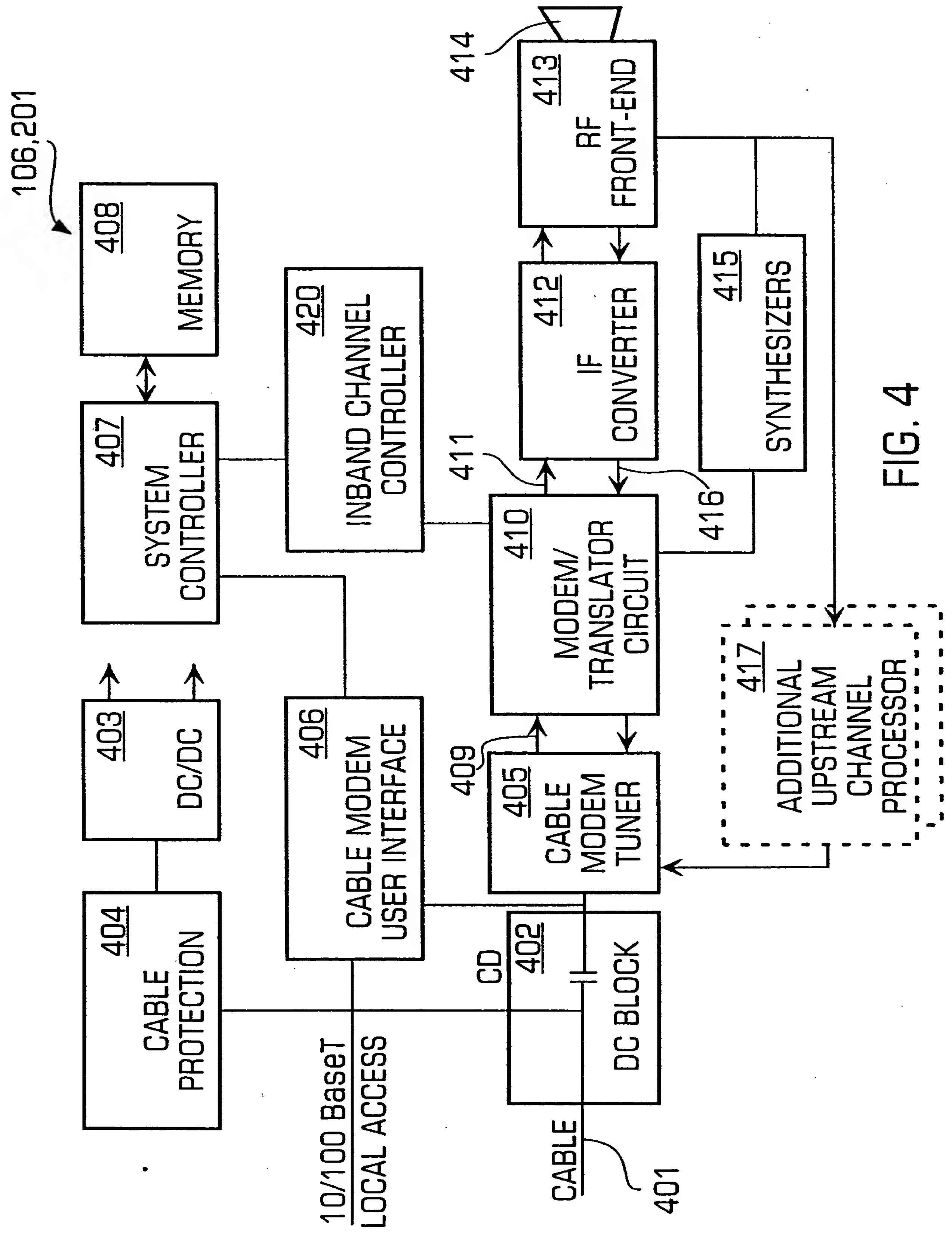


FIG. 3





107, 202, 203

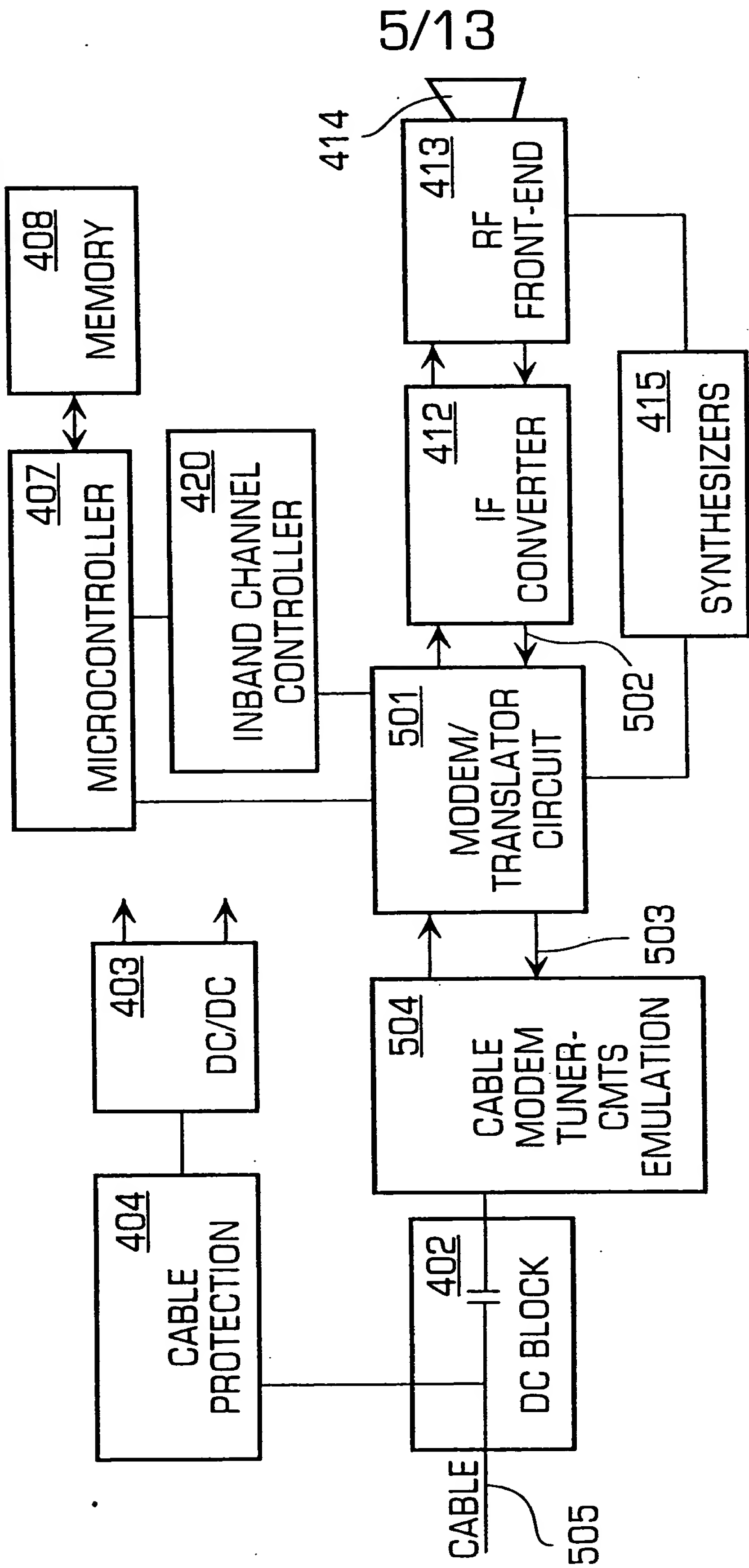
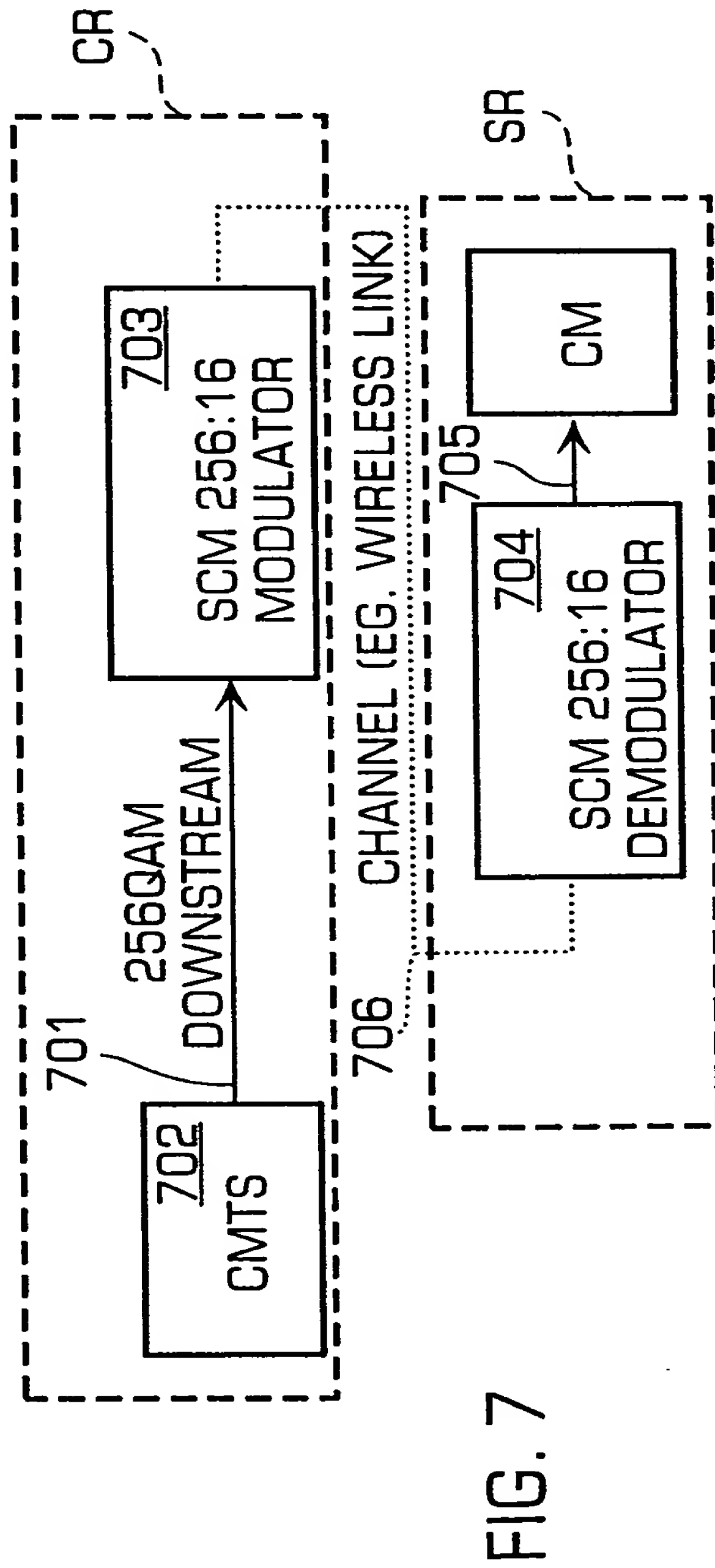
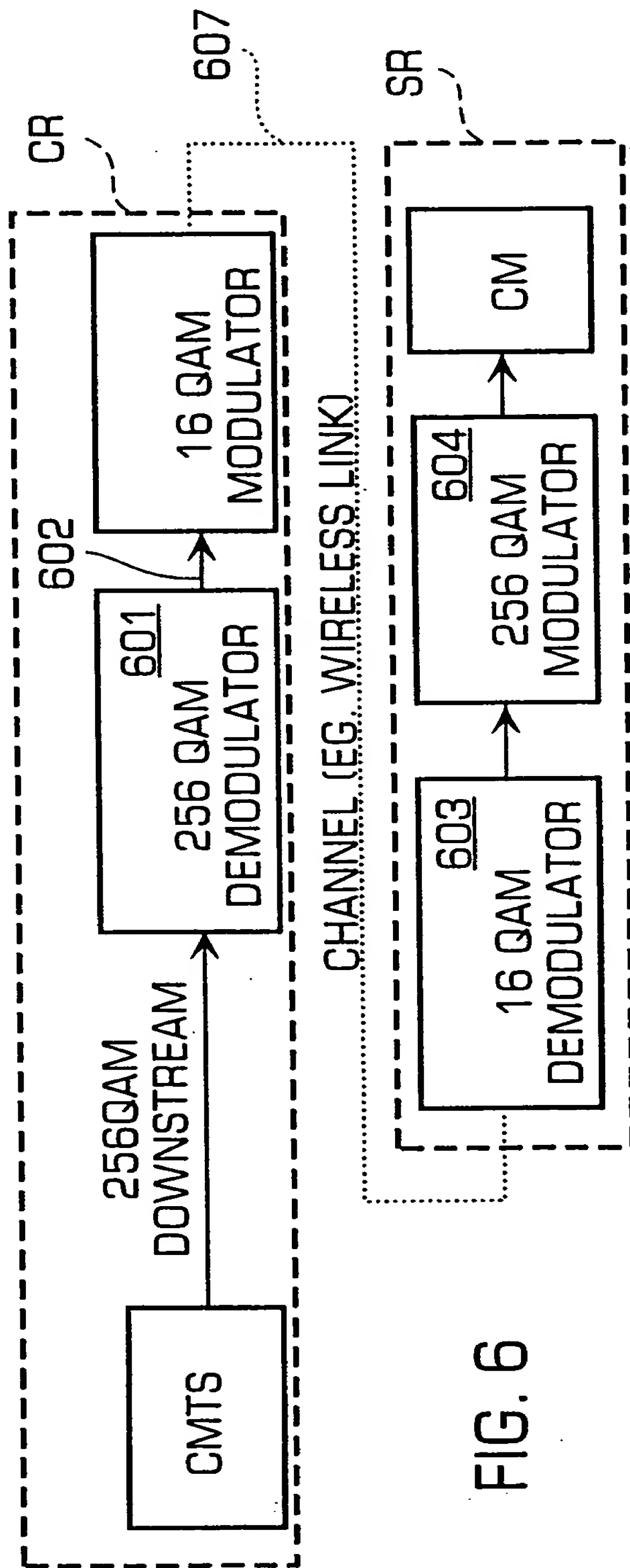
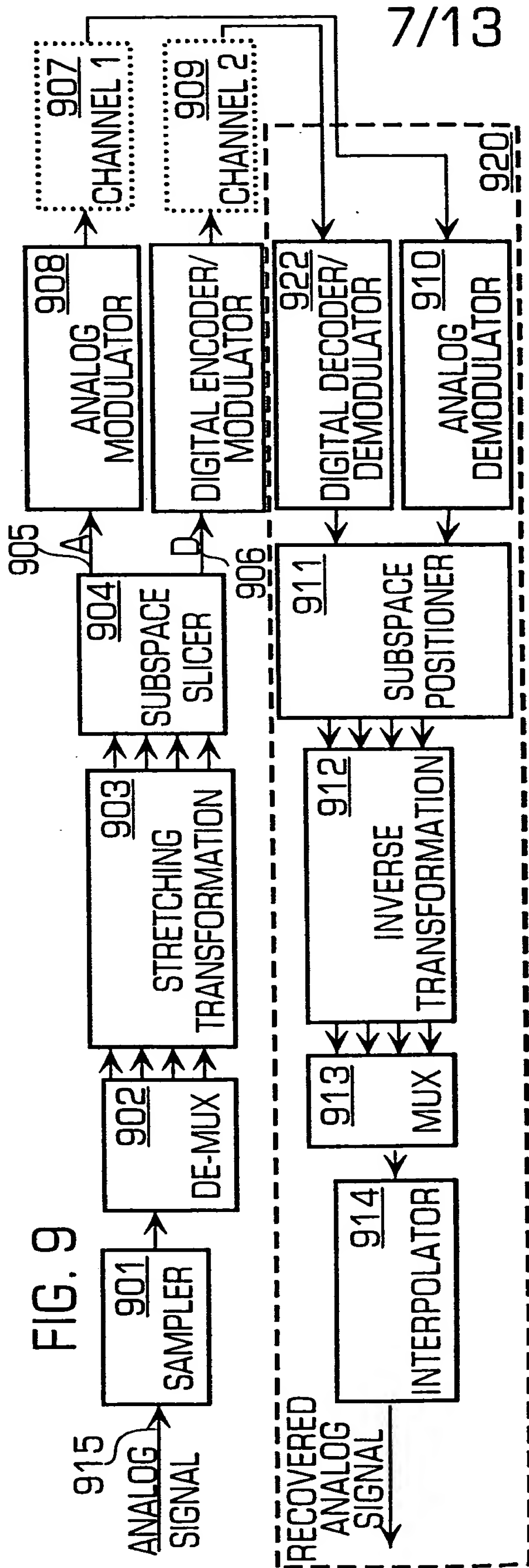
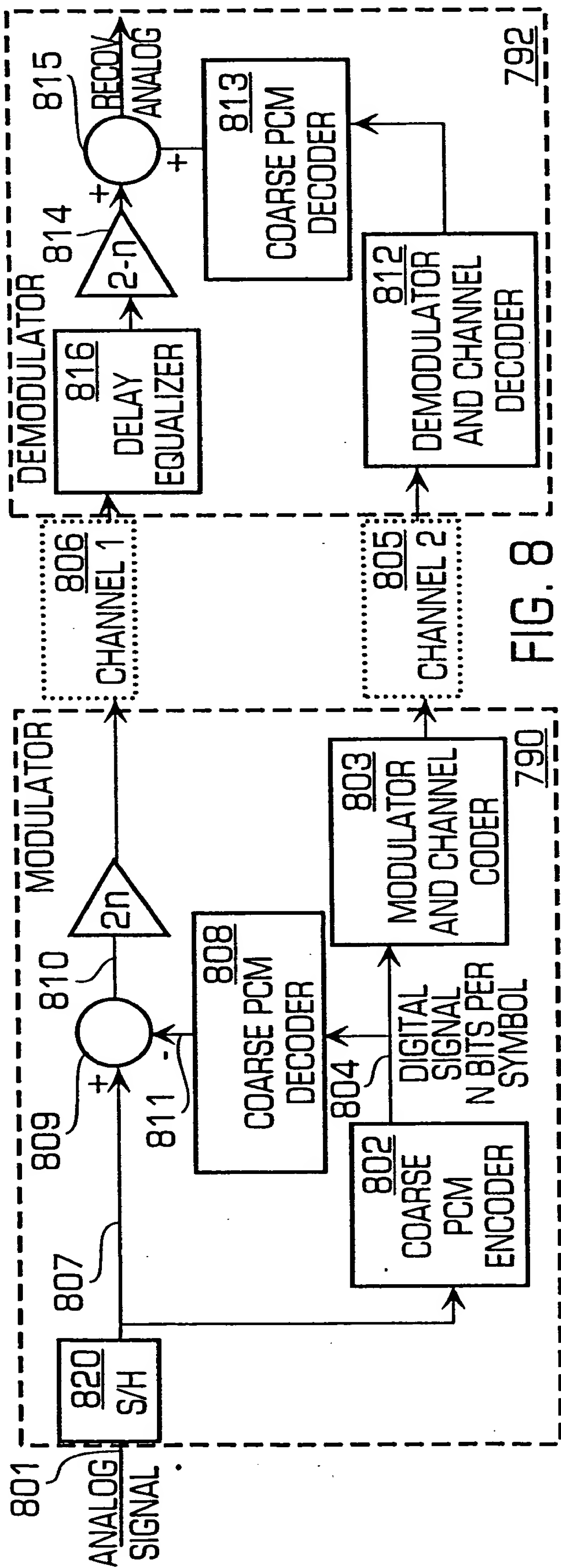


FIG. 5





8/13

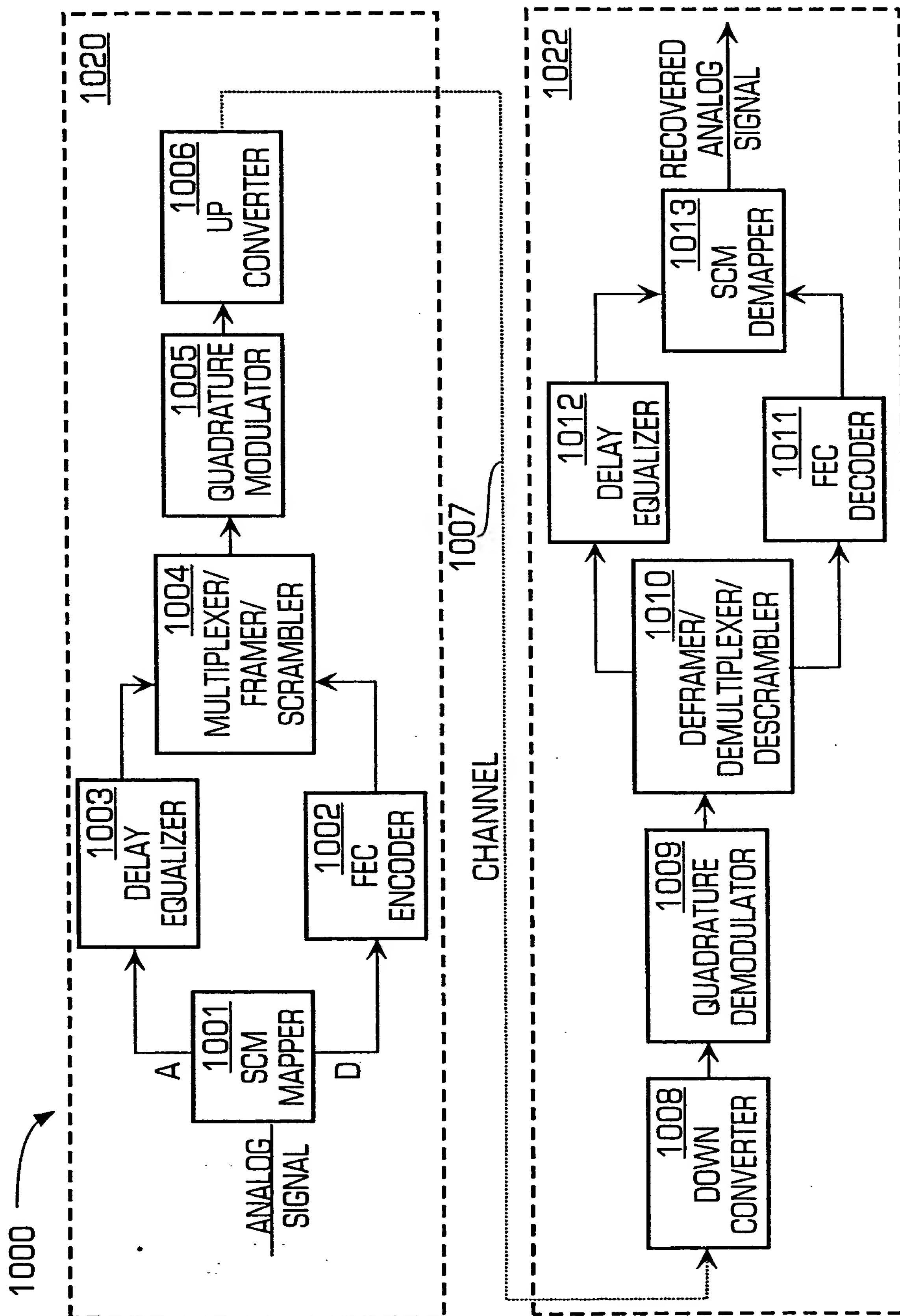


FIG. 10

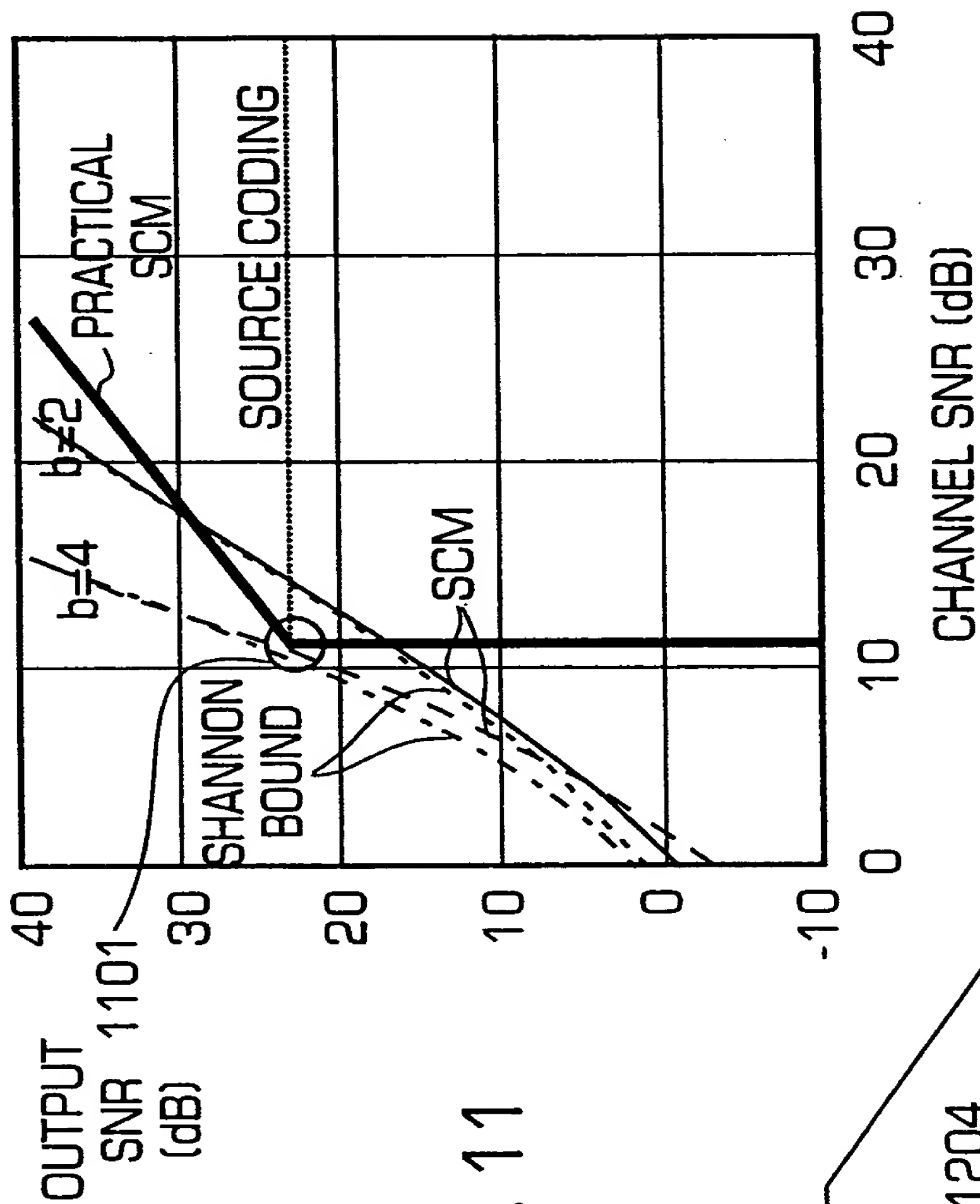


FIG. 11

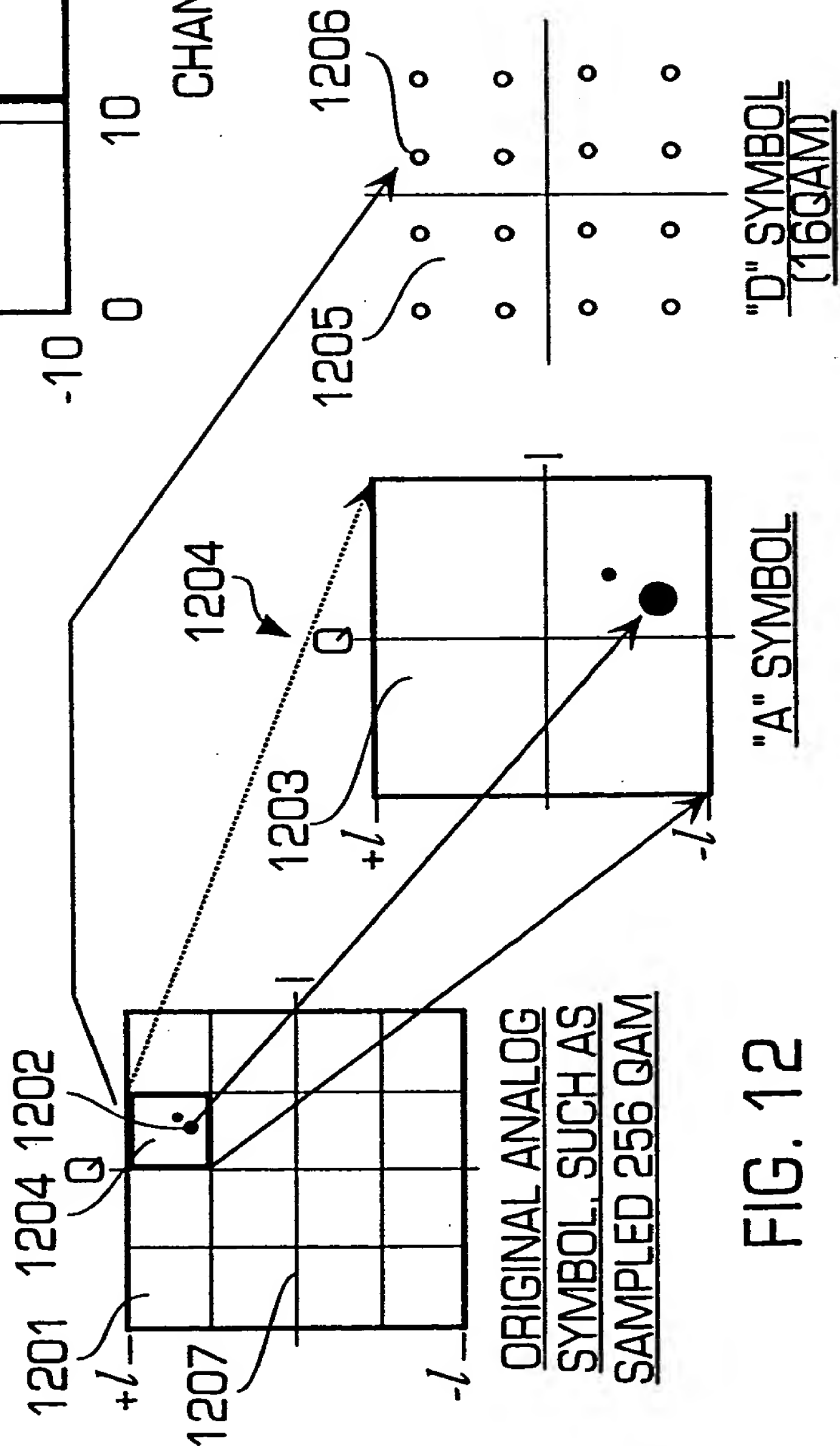


FIG. 12

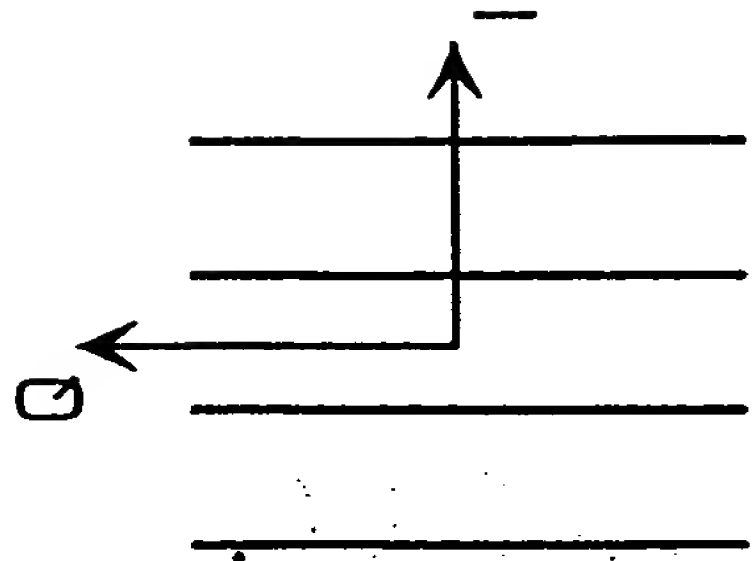


FIG. 13

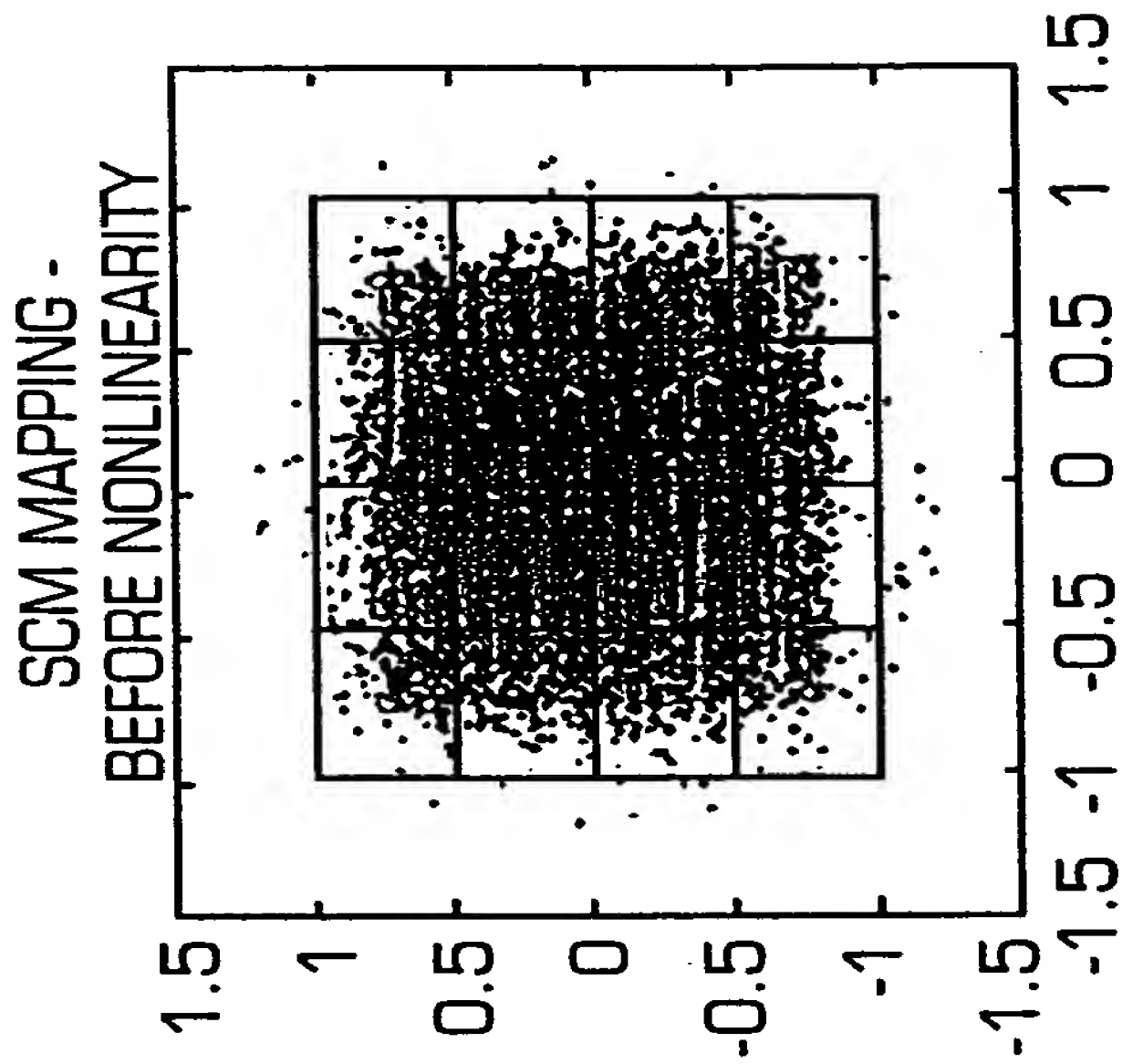


FIG. 17

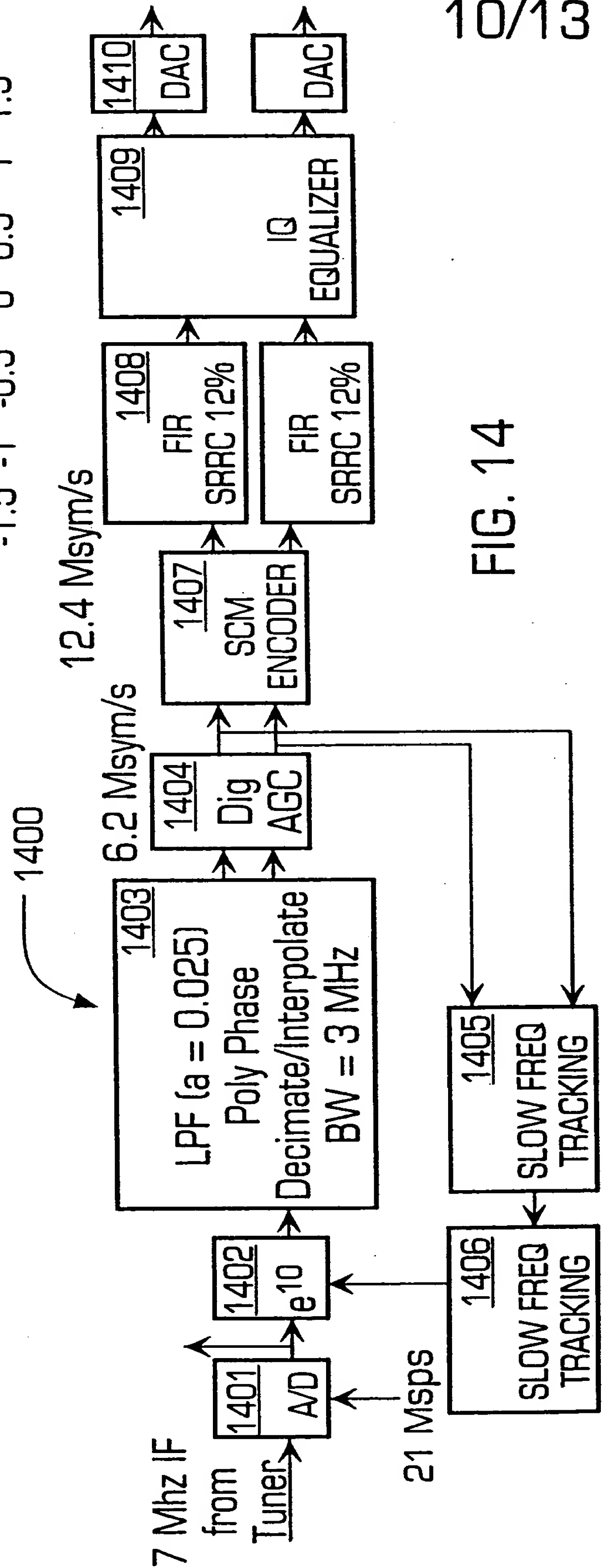


FIG. 14

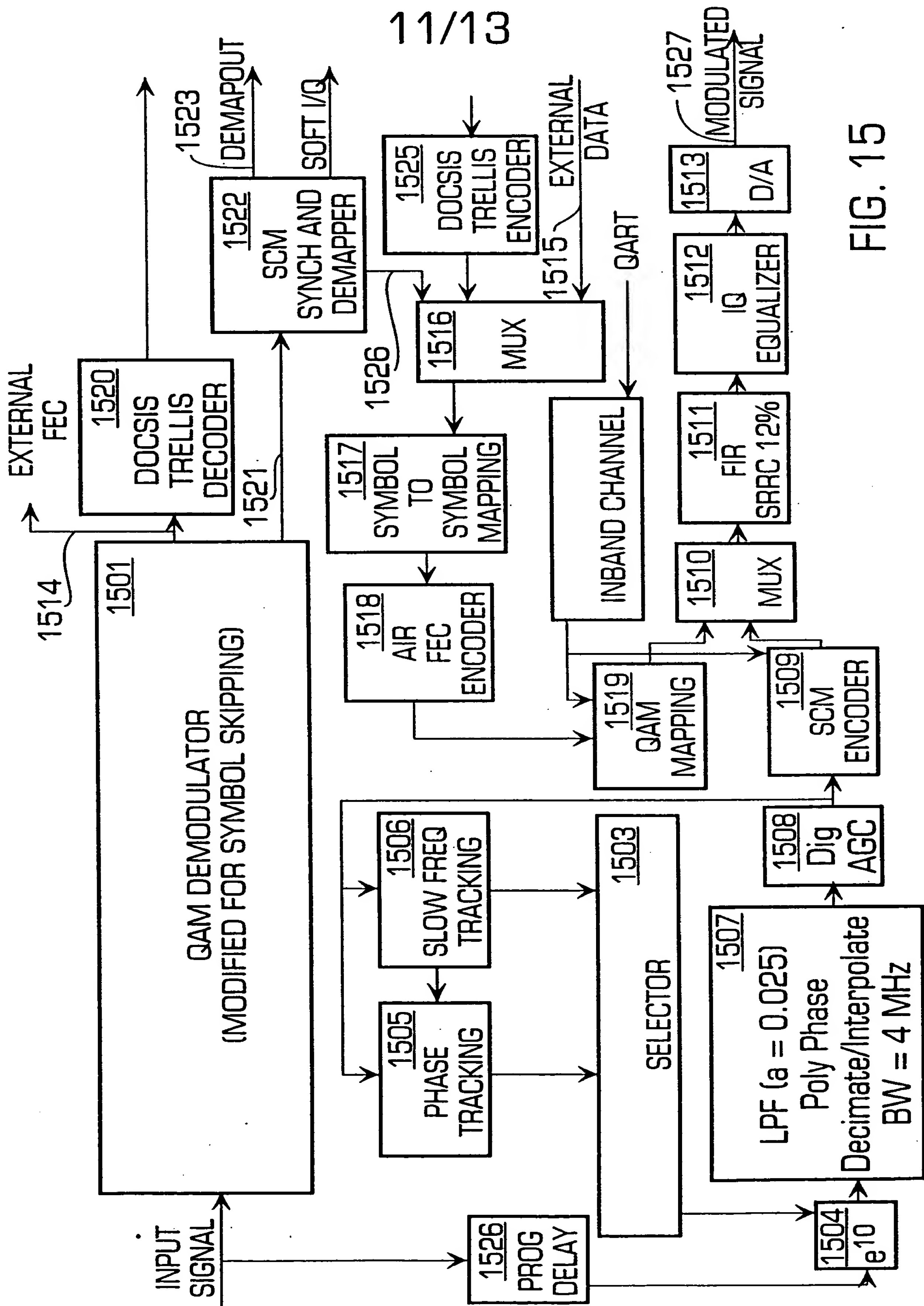


FIG. 15

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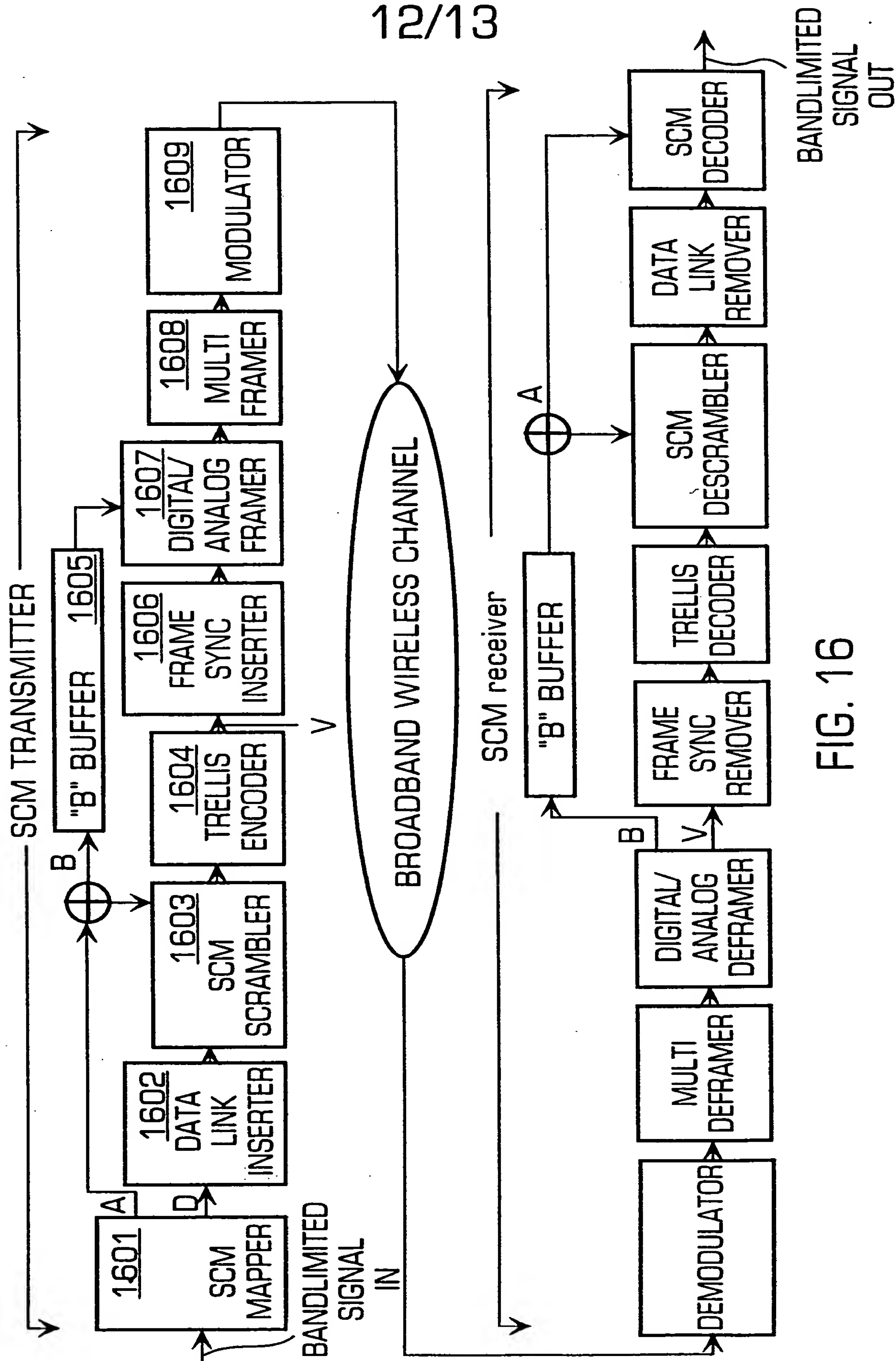
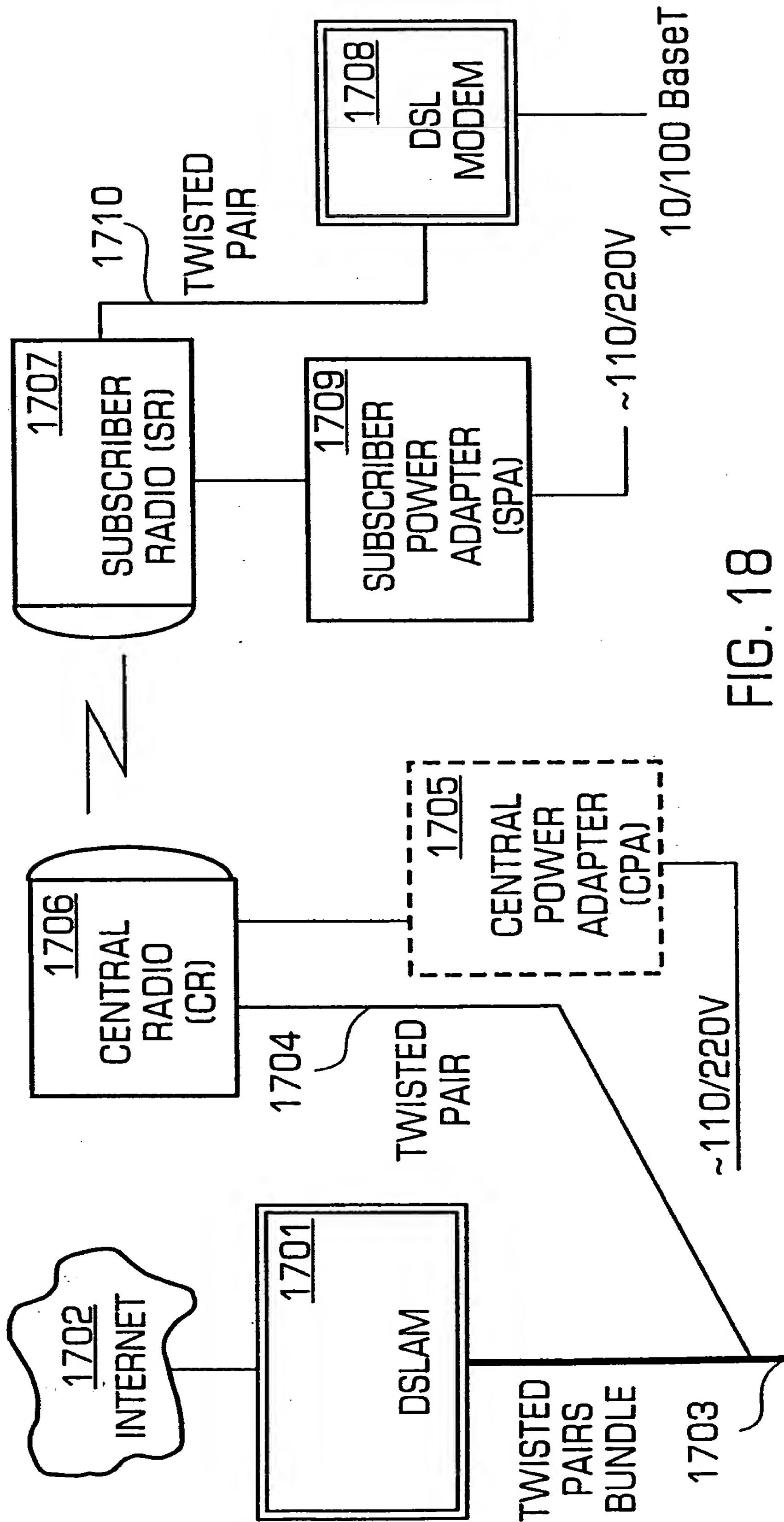


FIG. 16

13/13





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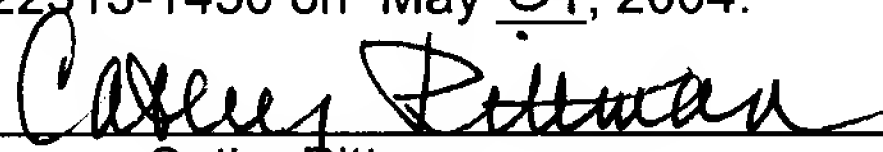
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